

Vector Electronic Company

INCORPORATED

1100 FLOWER STREET

GLENDAL, CALIF. 91201

Area Code 213 Phone 245-8971

Here is the literature you requested.

Money and time-saving Vectorbord*, Push-In, and Solderless U-Clips and Springclip terminals, and Plugbords are being used by more firms every day and here's why.

1. Vectorbord comes with the holes already in it. Vector Push-in or commonly used Turned terminals can be located wherever you need without drilling holes. Vectorbord is offered in eleven different hole spacing layouts, including our new Micro Vectorbord, and materials ranging from epoxy glass to XXXP phenolic.
2. Zip Push-In terminals go in fast, don't need to be staked and are economical. T-32 SOLDERLESS U-CLIPS are offered for quick, reliable experimental circuit setups.
3. Plugbords with Elco Varicon, Etched, or Vector Edge-Pins let you wire and plug in your cards right away without waiting for costly time consuming printed circuits.

In our literature you'll find all kinds of accessory items such as grid layout paper, plug-in transistor sockets, bus stripping, new Frame-Loc chassis supports, etc. to help you build your circuits faster, better, and more economically.

For evaluation purposes the 25X Experimenter's Chassis Kit is recommended along with some typical plugbords, receptacles, and T28 Miniklip terminals. The 25X contains the widest assortment of solderless and solderable chassis circuit setup materials. Plugbords suggested are representative as to size and numbers of contacts available.

25X Experimenter's Chassis Kit	\$21.45 1-49 pcs.
812 Plugbord 4½" x 6½" with 16 Elco Varicon contacts	2.87 1-19
R616-1 Receptacle for 812 Plugbord	2.24 1-99
T28 MiniKlip Push-In Bag of 100 (for .062" holes)	1.55 1-19
T28 MiniKlip Push-In Bag of 1000	11.00 1-4

Our distributors stock all items shown. If you have any problems or want a special item you don't see, please let us hear from you.

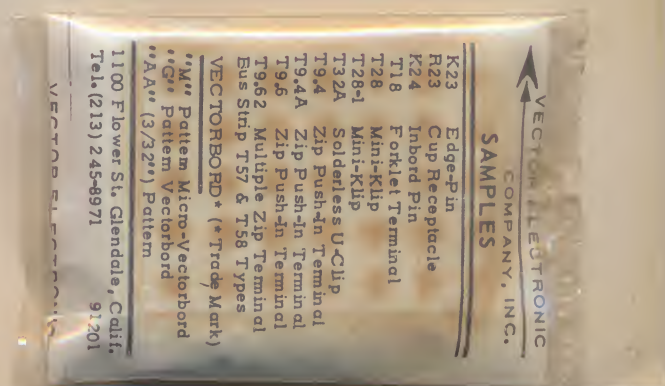
Floyd L. Hill

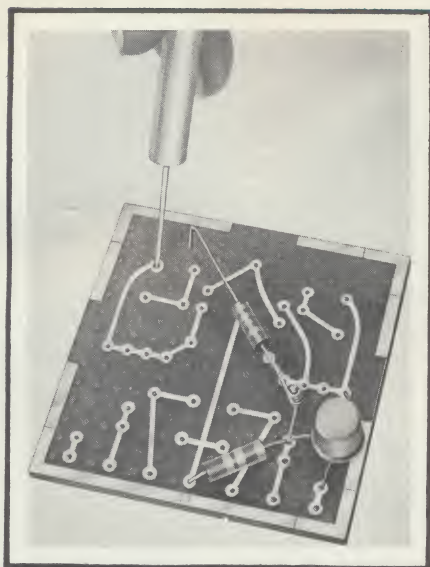
FLOYD L. HILL,
General Sales Manager

Enc: Samples, Literature

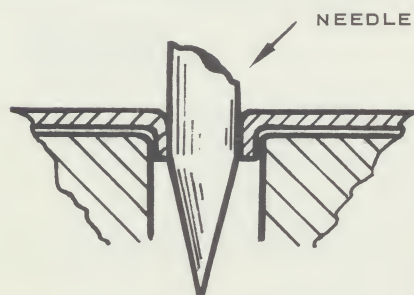
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*Trademark

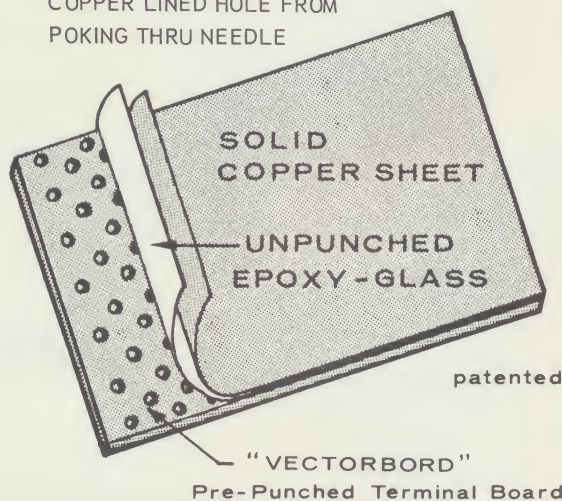




MOUNTING COMPONENTS ON ETCHED COPPCO



COPPER LINED HOLE FROM
POKING THRU NEEDLE



SPECIFICATIONS: Main board, epoxy glass grade G-10, per MIL-P-18177 with punched holes as shown in ordering Table; second layer epoxy glass .001" to .004" thick not punched; third layer, 2 oz. copper (.003") thick also unpunched; overall thickness 1/16" or as tabulated. For double sided COPPCO a fourth and fifth layer duplicate the second and third layers, but on opposite sides of the punched board.

VECTOR ELECTRONIC CO., INC.
1100 Flower St. Glendale, Calif. 91201

COPPCO (meaning Copper Covered Openings) is punched, insulated VECTORBORD * plus an unpunched copper layer protected on the underside by a thin epoxy film impervious to an etchant. (See illustration).

WHY COPPCO?

All the many advantages of prepunched VECTORBORD * can be obtained for etched circuit use without interference by unwanted holes in the copper path. The user can apply the resist pattern for his circuit as he would with unpunched copper clad and then etch. Following this he easily "pokes thru" the soft copper skin and on thru the underlying hole, using a straight upholstery needle, or Vector P135 tool. The outline of the hole is easily seen as a faint depression in the copper. Alternatively, a layout sheet placed over the board can be used. No drilling or punching is required unless special size holes are needed. Thus, uninterrupted copper ribbons or special copper patterns can be placed anywhere. See examples of this use in the illustrations. The general appearance of finished printed circuits is enhanced by the absence of unwanted holes.

SINGLE OR DOUBLE SIDED BOARD AVAILABLE

For most applications the single side COPPCO is preferred. With this the holes on the reverse side are open and helpful for locating positions. The double sided COPPCO will provide greater connection capability where required.

COPPER LINED HOLE OBTAINED

When a hole is pricked thru the copper by use of a pointed tool, such as P135, the copper is extruded down along the wall of the hole as shown in the illustration, providing a partially "plated thru" effect. This is very helpful in soldering wires or for other leads placed in the hole, since the solder then runs down in the hole, adhering to the extruded surface, as well as to the top surface of the copper.

ATTACHMENT OF TERMINALS TO COPPCO

Eyelets or Vector T28 MINIKLIPS can be installed directly into COPPCO without first opening the holes. Turned terminals will generally require that the holes be poked thru in advance. If a terminal is placed in the hole from the copper side, there is a large area of tight contact between the terminal and the extruded copper. Where more than a few units are required, a relatively simple multiple punch can be made to poke out all needed holes simultaneously. Details will be furnished upon request.

* Trademark

ORDERING INFORMATION

CATALOG NO.	DIMENSIONS*		HOLE PATTERN		TYPE	NO. COP'R. SIDES
	WIDTH	LGTH.	DIA.	SPACED		
8.5G4.8 COP-1	4.8"	8.5"	.062"	ALT. 0.1"	G†	1
8.5G4.8 COP-2	4.8"	8.5"	.062"	" 0.1"	G	2
17G4.8 COP-1	4.8"	17.0"	.062"	" 0.1"	G	1
18G11.5 COP-1	11.5"	18.0"	.062"	" 0.1"	G	1
18G11.5 COP-2	11.5"	18.0"	.062"	" 0.1"	G	2
18G46 COP-1	18"	46"	.062"	" 0.1"	G	1
18G46 COP-2	18"	46"	.062"	" 0.1"	G	2
8.5G3 COP-1	3"	8.5"	.062"	" 0.1"	G	1
8.5G3 COP-2	3"	8.5"	.062"	" 0.1"	G	2
8.5G2 COP-1	2"	8.5"	.062"	" 0.1"	G	1
8.5G2 COP-2	2"	8.5"	.062"	" 0.1"	G	2
K604 COP	APPX. 150 SQ. IN. MIX. SIZES FOR EXPERIMENTERS.		ALT. 0.1"		G	1 & 2

* WIDTH & LENGTH DIM. ARE MINIMUM, MAY BE 0 TO 3/4" GREATER.

ACCESSORIES

P135 Perforating Tool
R173G Layout paper 'G' Pattern Pad of 50 shts.

Note: Special sheet sizes can be cut to order for \$10.00 set-up charge and \$25.00 minimum order.

† See Cat. Sec. II, Page 4 for pattern description.

PLUG-IN CARDS NEED FRAMING

Vector "Kardej" is a new slender aluminum extrusion used to frame printed circuit cards or Vectorbord®. Some of its advantages are:

- Cards are straightened and stiffened, tending to eliminate warpage.
- "Kardej" becomes a handle which allows cards to be more readily inserted and removed from receptacles or cages.
- "Kardej" has a protected marking area which permits printed designations or pressure sensitive labels to be applied to a front, yet protected, edge of the card, facilitating identification.
- Cards mounted in "Kardej" have a lip around the periphery of the card so that potting compounds can be readily poured into place without special molds. (Special closure of fourth side may be required.)
- An attractive finished appearance is given to the plug-in card.
- Very thin card material can be used, as required in micro-circuitry, but with required card stiffness added by "Kardej".
- "Kardej" Frames can be formed to fit almost any desired card shape.
- "Kardej" framed cards ride smoothly in any card guide for 1/16" cards.

"KARDEJ" EASILY FITS ANY SHAPE

"Kardej" is supplied in strips 24" long, or in pre-formed sizes for attachment to three sides of a card.

To fit the unformed aluminum extrusion to a desired card, the aluminum "Kardej" material is first given a 90° notch, as shown in the figure, at each corner to be fitted. "Kardej" is usually fitted to three sides of the plug-in card, leaving the fourth free for the plug installation. However, if desired, the material can be placed on only the leading edge as a handle (see figure). To do this the card should first be notched as shown. The "Kardej" material can then be securely fastened to the circuit boards quickly and easily without special tooling. First, a small amount of epoxy adhesive is inserted along the card groove prior to inserting the card, and then the sidewalls of the card groove are crimped down on the circuit board at the ends and at other points if necessary by use of a pliers or a punch. This is illustrated in figure. The groove in the "kardej" material is normally intended for 1/16" insulated board, but if thinner stock is being used, the sidewalls can be pressed in, closing the groove to provide support to the thinner stock.

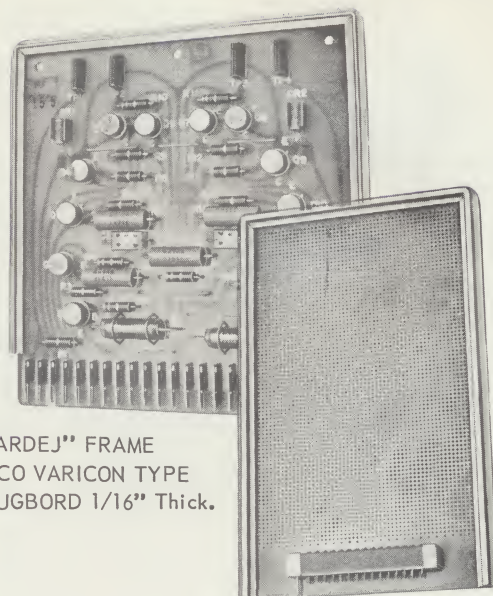
FACILITATES "POTTING" PLUG-IN CIRCUIT BOARDS

Where potting compound is to be poured upon the wiring or components of a plug-in printed circuit board, the fourth side may need to be closed. This can usually be done by placing tape or some other barrier upon the fourth side. After potting, the result is a finished, highly attractive, well protected card. Specifications are Aluminum Grade Alloy-6063-T42 per Mil-QQA-274. Supplied without special finish unless otherwise specified. On special order a heavily anodized surface can be provided which will prevent metallic contact with circuitry.

ORDERING INFORMATION

NOTCHED "KARDEJ" CAT. NO.	FOR FINAL OVERALL FRAME CARD		"KARDEJ" DIMENSIONS		UNFRAMED CARD DIM.		STANDARD PKG. QTY.
	WIDTH	LENGTH	A	B	W.	L.	
SR0.3-30/40	3"	4-1/2"	2.78"	4"	2.73"	4-1/2"	5
SR0.3-45/60	4-1/2"	6-1/2"	4.28"	6"	4.23"	6-1/2"	5

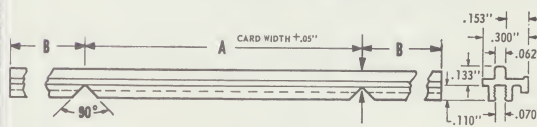
UNNOTCHED "KARDEJ" CATALOG NO.	DESCRIPTION	STANDARD PKG. QTY.
SR0.3-24/062	24" LONG, SQUARE ENDS	2



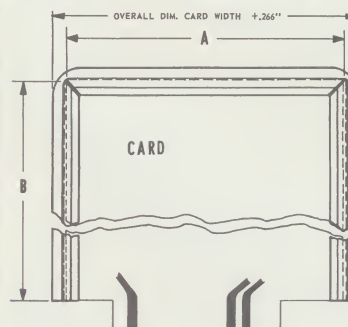
"KARDEJ" FRAME
ELCO VARICON TYPE
PLUGBORD 1/16" Thick.



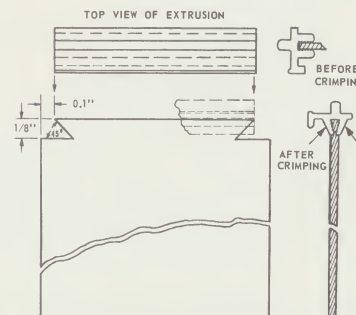
"KARDEJ" ON MICRO-PLUGBORD 3068
.032" thick and RECEPTACLE R815A



A. "KARDEJ" NOTCHED FOR CARD



B. "KARDEJ" BENT 90
AT EACH CORNER
AND INSTALLED
AROUND CARD



CARD NOTCHING FOR INSTALLATION
OF SINGLE EDGE "KARDEJ" HANDLE

CUT CONSTRUCTION DELAY

Save Time, Save Work, Save Money with these ready-to-wire plugboards. Ideal for making manually wired prototypes which can later be made as etched or welded circuits. For short production runs, hand wired boards (soldered or welded) can often be made faster and less expensively than etched boards. All boards shown except "F" and "C" pattern have overall grid of precision punched 1/16" diameter holes on alternate intersections of a 0.1" grid, pattern "G" for optimum mounting of JEDEC type transistors, terminals, eyelets, or component leads. "F" pattern boards have 1/16" holes located on .2" centers and "C" pattern boards have .093" holes on .2" grid. For general use epoxy paper boards will meet most requirements and may be punched, sawed or drilled if desired. Epoxy glass boards listed are better where environmental tests may be run, or where additional strength or better insulation is required.

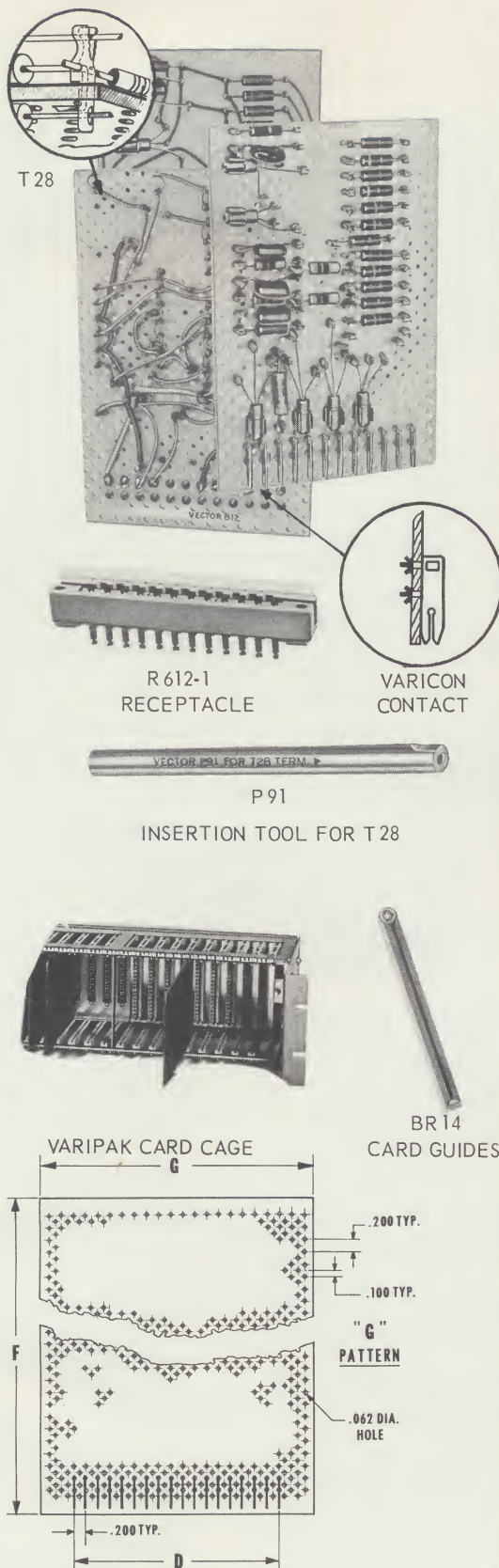
CIRCUIT LAYOUT

Layout paper with 10 squares per inch or Vector grid paper R173-G which exactly duplicates the "G" pattern plugboard grid may be used for the initial layout. After the graph paper circuit layout is completed, Vector T28 MINI-KLIP push-in terminals, T15.23 eyelets, or other turned terminals (Sec. VII, pg. 4) are located as required. The Elco Varicon contacts which are staked to eyelets on the bottom edge of the plugboard provide terminations for the various circuit elements. Leads may be easily soldered to these using the rectangular hole. Bare tinned copper wire may be used for inter-component connections to eliminate wire stripping. When using bare wire, all cross-overs are accomplished by components crossing conductors. Circuit changes are easily made because the component bodies and leads may be readily moved. The foregoing method makes the wired circuit topologically identical to a printed circuit bearing conductors only on one side. Also makes the circuit easy to trace for testing and servicing.

PLUGBORD USE

Plugboards may be mounted in plain receptacles only for experimental use or supported in receptacles with attached guides. For more permanent enclosures a choice of several arrangements is available:

1. Plugboards may be mounted in Vector-Strut or Vari-Pak card cages for which appropriate guides are available (see succeeding pages).
2. Plugboards may be mounted in Vector "Kardboxes" (see catalog pages) for fixed housing.
3. Or plugboards may be mounted in pluggable EFP Module cases, High Frequency Shielded cases, Vector-Pak "Wrap-Around" cases or Frame-Loc cases, all having internal card guides for card positioning.
4. Encased Plugboards mounted as above can be further plugged into Vector-Strut Module Cages which connect to standard equipment racks.



812 PLUGBORD LAYOUT

Cat. No.	Board Material	Hole Pattern	Dimensions			Contacts Installed	Eyelets Installed	Receptacle†
			G	F	D			
812	Epoxy-Paper	G	4.5	6.5	3.	16	32	R616-1
* 812A	Epoxy-Paper	G	4.5	6.5	—	None	32	—
* 812B	Epoxy-Paper	G	4.5	6.5	—	None	None	—
812WE	Epoxy-Glass	G	4.5	6.5	3.	16	32	R616-1
837	Epoxy-Paper	G	3.	4.5	2.2	12	24	R612-1
* 837A	Epoxy-Paper	G	3.	4.5	—	None	24	—
* 837B	Epoxy-Paper	G	3.	4.5	—	None	None	—
* 837F	Epoxy-Paper	F	3.	4.5	2.2	12	24	R612-1
837WE	Epoxy-Glass	G	3.	4.5	2.2	12	24	R612-1
847	Epoxy-Paper	G	3.	4.5	2.6	14	28	R614
* 847A	Epoxy-Paper	G	3.	4.5	—	None	28	—
* 847B	Epoxy-Paper	G	3.	4.5	—	None	None	—
918	Epoxy-Glass G Pattern Copper	1 side see ill. Pg. 6	4.5	8.5	3.8	20	40	R620
* 927	Epoxy-Paper	G	4.5	3.	3.8	20	40	R620
* 927A	Epoxy-Paper	G	4.5	3.	—	None	40	—
* 927B	Epoxy-Paper	G	4.5	3.	—	None	None	—
* 2292	Epoxy-Paper	G	3.	8.	2.2	12	24	R612-1
* 2292A	Epoxy-Paper	G	3.	8.	—	None	24	—
* 2292B	Epoxy-Paper	G	3.	8.	—	None	None	—

Any board available in Epoxy-Glass by adding "WE" to Cat. No.

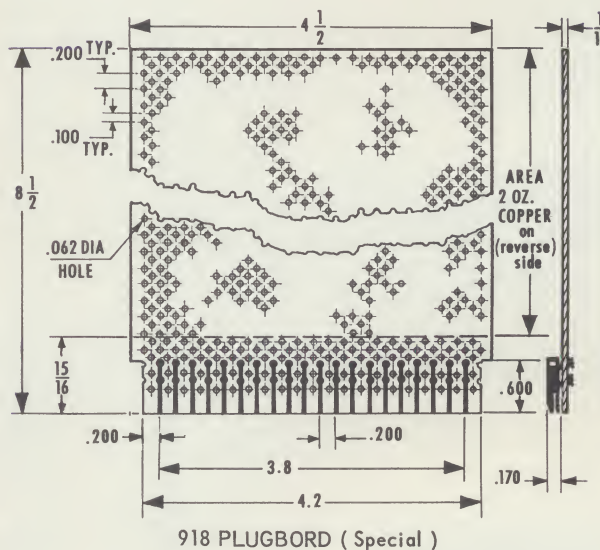
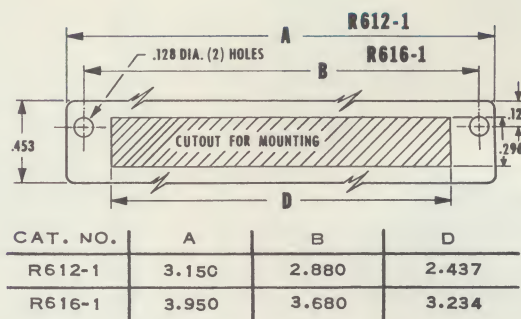
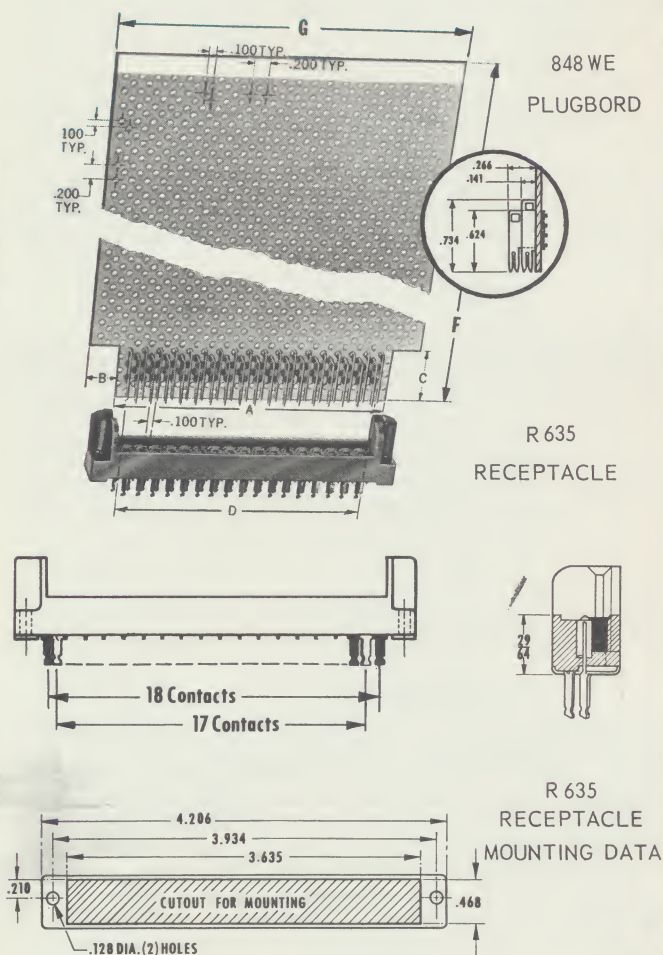
Special sizes and configurations available to order.

▲ Eyelets are installed at contact positions to receive contacts. Complete Material Specifications on Sect. IV, Page 7.

† See Section IV, Page 6 for receptacle mounting data.

* Not stock item, special order only.

RECEPTACLE MOUNTING DATA



ORDERING INFORMATION

Cat. No.	Board Material	Hole Pattern	Dimensions (See figures Pg. 7)							Contacts Installed		Eyelets Installed	Receptacles (Order 7001 Series from Elco)
			A	B	C	D	E	F	G	Upper	Lower		
848WE	Epoxy-Glass	G	3.706	.397	.750	3.4	.397	6.5	4.5	17	18	70	R635
* 848AWE	Epoxy-Glass	G	3.706	.397	.750	3.4	.397	6.5	4.5	None	None	70	—
* 848BWE	Epoxy-Glass	G	3.706	.397	.750	—	.397	6.5	4.5	None	None	None	—
2123AWE	Epoxy-Glass	G	5.000	.625	.750	4.6	.625	8.5	6.25	23	24	94	7001-Type
2436	Epoxy-Paper	G	3.6	.450	.750	3.4	.450	6.5	4.5	17	18	70	7001-Type
2436A	Epoxy-Paper	G	3.6	.450	.750	3.4	.450	6.5	4.5	None	None	70	—
2436B	Epoxy-Paper	G	3.6	.450	.750	—	.450	6.5	4.5	None	None	None	—
* 2309B	Epoxy-Paper	G	3.	1.7	.750	2.8	1.8	4.45	6.5	14	15	58	7001-Type
2309C	Epoxy-Paper	G	4.2	1.1	.750	4.	1.2	4.45	6.5	20	21	82	7001-Type
2536WE	Epoxy-Glass	C	3.7	.400	.750	3.4	.400	6.5	4.5	17	18	70	R635
* 2536AWE	Epoxy-Glass	C	3.7	.400	.750	3.4	.400	6.5	4.5	None	None	70	—
* 2536BWE	Epoxy-Glass	C	3.7	.400	.750	—	.400	6.5	4.5	None	None	None	—

* Not stock item, special order only.

▲ Board with eyelets in contact positions and blank boards for customers preferring to install their own contacts. Order Vector T15.22 eyelets if additional eyelets required. See Section VII, Page 4 for eyelets and eyelets setting tools.

Special sizes and configurations available to order.

Any board available in epoxy-glass by adding "WE" to Cat. No.

For descriptions of patterns See Section II, Page 1

VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area-213 Phone 245-8971

TXW 213-240-2162

CARDS WITH VARIOUS NOS. & TYPES OF CONTACTS

SPECIAL PLUGBORDS

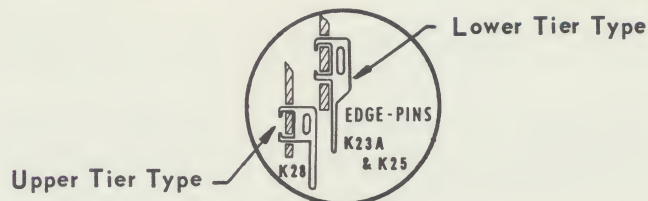
The advantage of Vector Plugboards residing in the ability to quickly mount many or few plug pins along any edge as needed makes possible the rapid fabrication of a wide range of special plugboards. In addition to Varicon type pins, customers may select single or double tier Vector-Pins. These provide .040" diameter round pins (instead of the Varicon bifurcated blade). Plugboards thus made fit a variety of Vectorconn receptacles separately described in Section IV-A of this catalog. See illustration of Vector-Pins to right.

HOW TO ORDER SPECIALS

For Special plugboards customers should state card size and material desired, hole pattern, plug type (Vector-Pin, Varicon or printed tab) number of plug tips and receptacle to be used. Set-up charges are made for small orders.

EDGE-BORD Type Vector-Pins

For installation in 1/16" diameter holes on edge of Vector Plugboards.



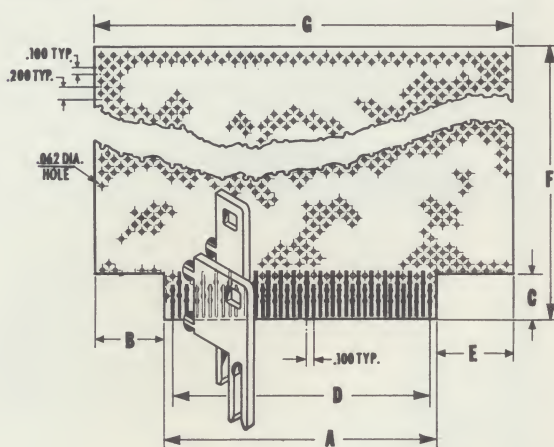
(See Section IV-A for mating VECTORCONN Receptacles or Section IV, Page 11 for mating Vector-Cup Receptacles.)

ORDERING INFORMATION (Pins Only)

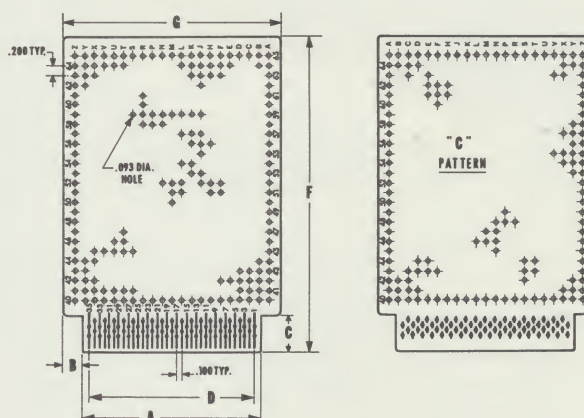
Cat. No.	For Board Thkns.	Plating	Std. Pkg.
K23A	1/16"	Nickel Pltd. & Gold Flash	50
K25	3/32" to 1/8"	Nickel Pltd. & Gold Flash	50
K28	1/16" - 3/32"	Nickel Pltd. & Gold Flash	50
P93	ALL	Hand Staking Tool	1
P118-1	ALL	Air Opr. Prod. Staking Tool.	

Note: Although the customer can mount the above Vector Pins himself with the proper tool we recommend factory mounting where quantity is sufficient.

PLUGBORDS



2309 PLUGBORD



2536 WE PLUGBORD

SPECIFICATIONS

EPOXY-PAPER 1/16" thick ivory color meets Mil-P-22324 type PEE, 250° max.
EPOXY-GLASS 1/16" thick greenish white, grade G10 meets Mil-P-18177 type GEE 300°F. max.

EPOXY-PAPER copper clad, 2 oz. 1/16" thick ivory color, meets Mil-P-13949 type PX, 250° max.
EPOXY-GLASS copper clad 2 oz. 1/16" thick greenish white, meets Mil-P-13949B type FL-GE, 300° F. max.

HOLE PATTERN "G" pattern .062" dia. holes on alternate 0.1" ctrs. "F" pattern .062" dia. holes on 0.2" ctrs. "C" pattern .093" dia. holes on 0.2" ctrs.
CONTACTS (use on boards and receptacles) phosphor bronze, per QQ-P-330, grade A, nickel plated .0002", gold flash -.000015" to .000020".
RECEPTACLES CASTING { R612-1, R616-1, R635 - Glass filled diallyl-phthalate molded.
CARD CAGE Aluminum, supplied with two receptacle mounting straps. Fits standard 19" relay rack accommodates cards 4-1/2" wide, up to 8-1/2" long, ELCO type 3032
GUIDES Snap-in polycarbonate for 1/16" board slotted.

SPEED UP PRINTED CIRCUIT PROTOTYPES

Printed Circuit Plugboards are similar to the Plugboards previously described except that 2 oz. copper cladding on one or both sides of the punched board has been etched as required to form tab contacts on the leading edge of the board and/or to provide other pads or lines as specified.

The individual etched contacts are on .156" center and are .090" wide on the 838PWE and all -1 series boards, and .072" wide on all others.

All listed plugboards fit the most frequently used standard printed circuit receptacles. For customer convenience Vector stocks double readout type printed circuit receptacles as their number R644. These receptacles have 44 independent contacts in two rows and will accommodate all P.C. type Plugboards listed below.

On the 838PWE Plugboard additional etched copper pads and lines are provided around certain holes to facilitate soldering in component leads as shown in the figure. The triangular pad pattern is especially useful for transistor leads since hole spacing matches JEDEC standard (all holes are 1/16" dia. on alternate intersections of 0.1" grid.)

The circuit layout and P.C. Plugboard use is performed in the same manner as described in Section IV, Pages 5, 6 and 7.

For best connections to the individual etched contacts, it is suggested that a terminal be mounted in the hole around which is 1/8" dia. "pad" at the end of the contact strip. It is also suggested that when soldering a component lead to this terminal the solder be allowed to flow onto the copper pad to make good contact with the contact strip. Terminals available for this use are T28, T28-1, T18 & T15,23.

ORDERING INFORMATION

CATALOG NUMBER	Etched Contact Total	Board Sides	DESCRIPTION - All Plugboards 4-1/2" x 6- 1/2" x 1/16" Dimension	Dimension	
				A	B
838*	43	2	Epoxy Paper	.408	.508
838-1	43	2	Epoxy Paper	.453	.453
838WE-1GN	43	2	Epoxy Glass, Nickel Pltd. Gold flash cont.	.453	.453
838A	22	1	Epoxy Paper	.408	.508
838A-1	22	1	Epoxy Paper	.408	.508
838AWE	22	1	Epoxy Glass	.408	.508
838AWE-1	22	1	Epoxy Glass	.453	.453
838AWE-1GN	22	1	Epoxy Glass, Nickel Pltd. Gold flash cont.	.453	.453
838PWE	22	1	Epoxy Glass	.408	.508

*Order R644 Receptacle for above plugboards; has 44 independent contacts in two rows on .156" centers.

VARIATIONS

For Epoxy - Glass Board add - WE after catalog number.
For 1/16" holes on 0.2" X 0.2" Grid add F to catalog number.
Special sizes can be made to order.

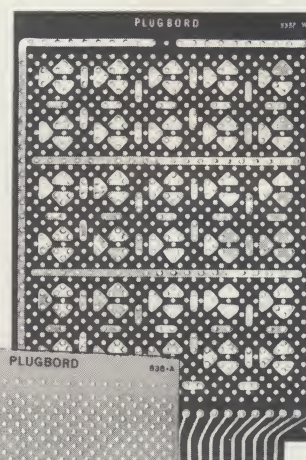
ACCESSORIES

CAT. NO.	DESCRIPTION
T-28, T-28-1	Push-In Terminal (See Sect. VII Page 3)
T-18	Forked Turned Terminal (Sect. VII, Pages 5 & 6)
T15, 23	Eyelets - 1/16" Barrel x 3/32" Length under head.
R173-G	Alternate 0.1" Grid layout Paper-50 sheets/pad.

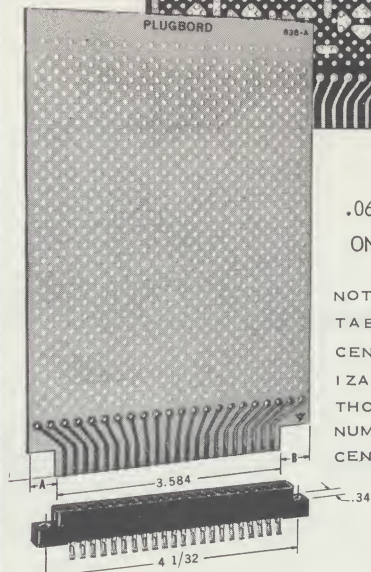
VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area -213 Phone 245-8971

TWX 213-240-2162

838 PWE



838 A



.062" DIA. HOLES
ON ALT. 0.1" CTRS.

NOTE: PRINTED PLUG
TABS ARE SLIGHTLY OFF
CENTER TO AID IN POLAR-
IZATION EXCEPT THAT IN
THOSE HAVING -1 IN THE
NUMBER THE TABS ARE
CENTERED. (SEE TABLE)

R 644 RECEPTACLE

SPECIFICATIONS

BOARD

838, 838-1, 838A-1, 838A - 1/16" Epoxy Paper, Grade EXXXP per MIL-P-22324.

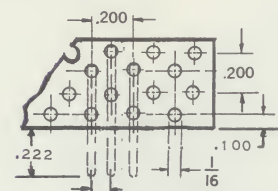
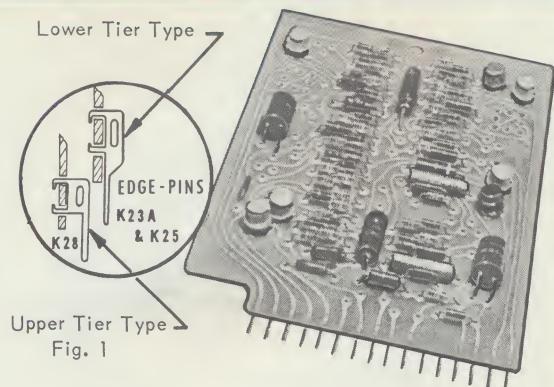
838AWE, 838WE, 838PWE, 838WE-1GN, 838AWE-1, 838AWE-1GN - 1 16" Epoxy Glass. Type: GEE, Grade G-10 per MIL-P-18177.

CONTACTS

Unplated Material is 2 oz. Copper. All P.C. Plugboards shown above are coated with a water dip lacquer to prevent the copper contacts from tarnishing. Lacquer may be easily removed with lacquer thinner. Plated Where indicated, plating is nickel plus gold flash.

RECEPTACLE

Insulator Material: Glass filled Diallyl Phthalate Bifurcated Contacts: Phosphor bronze Sel-Rex Gold finish .00003 min.



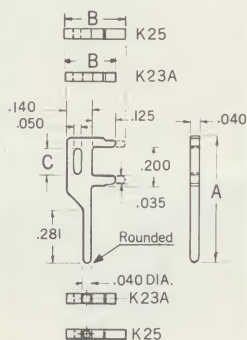
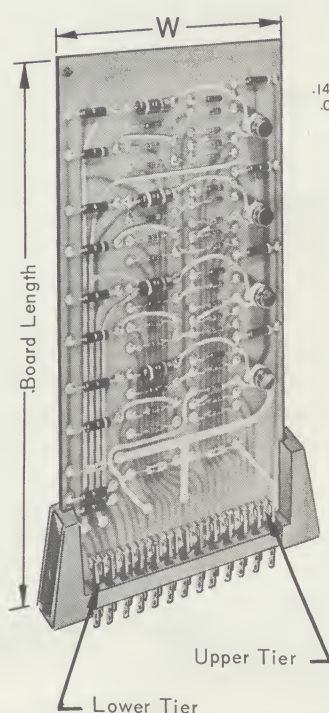
HOLE LAYOUT

- .1 For Two Tiers
- .2 For One Tier

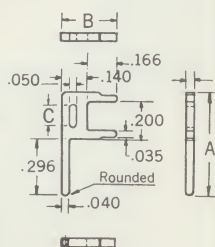
(SPECIAL PLUGBORD)



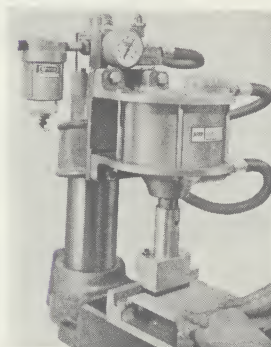
P-93 Installing Tool



K23A, K25
Lower Tier Edge-Pin



K28 Upper Tier
Edge-Pin



P-118-1
Air Staking Tool
Fig. 2

UNIQUE ROUND PINS FOR CARD ATTACHMENT

GENERAL: Vector EDGE PINS and INBORD PLUG PINS mount easily wherever needed on circuit cards. They provide .040" diameter round pins which fit VECTORCONN receptacles, individual VECTOR-CUPS (to match even irregular pin spacings), or most other pin-socket type receptacles for this size. Plug Pins can be soldered to printed circuit patterns or to wires.

EDGE-PINS: Edge pin contacts are K23A type for single or lower tier contacts and K28 type on upper tiers. Edge pins are attached upon 1/16" to 1/8" thick circuit boards with two projecting fingers which run through 1/16" diameter holes and are bent over on the reverse side of the circuit board. (See Figure 1.) Individual pins may be readily attached to circuit boards with hand tool P93, or for very small quantities by carefully bending over the projecting fingers on the reverse side of the board. (Not generally recommended.) For large production applications, an air operated staker is available. (See Figure 2.) Pins are spaced on .1" or .2" center, or as required.

Specifications: Material; copper alloy, .040" thick with pin portion rounded to .040" diameter and remaining portion flat. Nickel plated, .0003" per QQ-N-290, Class I, Type VI, and gold flashed .00003" per MIL-G-45204, Type II.

Ordering Information.

Cat. No.	Description	Dimensions			Standard Package
		A	B	C	
K23A (Lower Tier)	Edge Pin for 1/16" Board	.647"	.265"	.156"	50 & 1000
K25 (Lower Tier)	Edge Pin for 3/32" - 1/8" Board	.647"	.320"	.156"	50 & 1000
K28 (Upper Tier)	Edge Pin for 1/16" - 3/32" Board	.546"	.306"	.125"	50 & 1000
P93	Hand Staking Tool for Above				
P118-1	Air Operated Staking Tool				

EDGE-PIN PLUGBORDS: Plugbords listed below are ready-to-wire and plug into VECTORCONN Receptacles listed in Section IV-A. Plugbords are provided with an overall pattern of .062" holes on alternate 0.1" centers (Vector pattern "G") which accept Vector Push-In T-28 MINI-KLIPS, eyelets or screw machine terminals. Plugbord material is Epoxy paper 1/16" thick per MIL-P-22324, Type PEE, or Epoxy Glass, Grade G-10 per MIL-P-18177, Type GEE.

Ordering Information.

Catalog Number	Board Material	Dimensions		No. Pins		Mating Receptacle*
		Width	Length (Incl. Pins)	Lower Tier	Upper Tier	
842-120	Epoxy-Paper	4 1/2"	6 1/2"	20		RW-120-S
842-120WE	Epoxy-Glass	4 1/2"	6 1/2"	20		RW-120-S
842-241WE	Epoxy-Glass	4 1/2"	6 1/2"	20	21	RW-241-S
856-112	Epoxy-Paper	3"	4 1/2"	12		R-112-S
856-112WE	Epoxy-Glass	3"	4 1/2"	12		R-112-S
856-225WE	Epoxy-Glass	3"	4 1/2"	12	13	R-225-S

* Mounting details and Specification detail listed in Section IV-A, Pgs. 1-4. Receptacles with solder tabs are listed. Printed circuit types and card guide types are also available - see Section IV-A for dimensions.

CARD GUIDES: Edge Pin Plugbords should be supported laterally to protect pins and guide plugbord into position. Card Guide end pieces for listed receptacles are illustrated in Figure 3. They may also be bolted direct to a chassis for card support. When it is required to rack mount large numbers of cards side by side, the Vector Strut Card Cage or the Elco Varipak Card Cage can be used.

Card guides listed on page 12 are molded from glass filled Diallyl Phthalate, Grade 52-01 and sold in pairs for left and right.

Ordering Information.

Cat. No.	Description	Standard Package
B60	Pair of guides for 1/16" cards.	5 Pair

Longer card guides to support full length of cards are described in Section V, pages 16-18 for the Vector Strut Cage or Section IV, page 16 for the Elco Varipak Cage.

VECTOR CUP RECEPTACLE (for .040" Round Pins). Vector cup receptacles listed below accept Inbord Plug Pins listed below, Edge Pins listed on page 11, or any .040" diameter pin of proper length. (See Figure 6.) High reliability, press formed beryllium copper or phosphor bronze contacts, like those used in Military type tube sockets are positioned in brass shells with contact tabs emerging through a slot in one end. Cup receptacles may be mounted anywhere on 1/16" or 3/32" panels in .140" diameter holes with staking tools listed below. Cup spacing should be not less than 0.2". A special staking anvil for the .2" spacing is listed giving greater clearance between the edges than the standard anvil.

Specifications: Cup - half hard brass alloy No. 271 with bright tin plate per MIL-T-10727, Type I. Contacts - phosphor bronze or beryllium copper, nickel plate .0003" minimum per QQ-N-290, Class II, .0001" to .0002, plus gold flash per MIL-G-45204, Type II, .00003" thick.

Ordering Information.

Catalog Number	Description	Installing Tools *	
		Cup Holder	Cup Staker Anvil
R23A	Cup Receptacle for 1/16" thick panels	P95B	P95 or P95A
R24A	Cup Receptacle for 3/32" thick panels	P95B	P95 or P95A

*NOTE: Staking and holding tool have 1/2" diameter shank for arbor or drill press use. P95 provides uniform "roll", P95A provides oblong "roll" for .2" spacing.

INBORD PLUG-PINS: Inbord plug pins may be mounted wherever required to provide plug-in capability for modules with any number of pins in any arrangement. Pins are cold formed phosphor bronze with projections around the shaft adjacent to a flange. (See Figure 4.) The tip of the pin is rounded for easy entry. The knurled portion, when pressed into a tight hole cuts in and prevents the pin from rotating while holding firmly. After mounting in a .038" diameter hole, or an eyeleted 1/16" diameter hole, the emergent end may be bent at 90°, or hooked for easier connection of wires. (See Figure 5.) Solder on the emergent end of the pin will prevent any pull out, even if the pin is not bent over. Inbord plug pins also make excellent test points. Installation of inbord plug pins is easily accomplished with the tools listed below.

Specifications: Material - Phosphor bronze, Grade A, alloy No. 351 per MIL-B-892 or QQ-P-330, Nickel plated .0003" per QQ-N-290, Class I, and gold flashed .00003" per MIL-G-45204, Type II or tinned .0003" per MIL-T-10727, Type I.

Ordering Information

Cat. No.	Plating	Dimensions		Standard Packaging
		A	B	
K24A	Nkl, Pl, Gold Flash	.375"	.255"	50 & 1000
K24C	Bright Tin	.375"	.255"	50 & 1000
K26C	Bright Tin	.195"	.160"	50 & 1000
P97	Punch: Use for installing pins.			
P134	Pin Holder: Holds pin in position when using the P97 punch.			

VECTOR ELECTRONIC CO., INC.

1100 Flower St. Glendale, Calif. 91201 Area-213 Phone 245-8971
TWX 910-497-2283

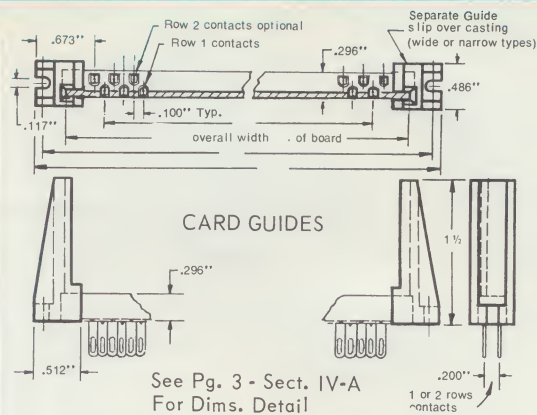
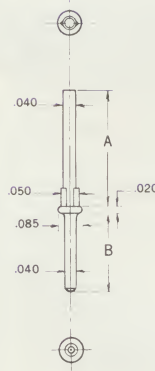
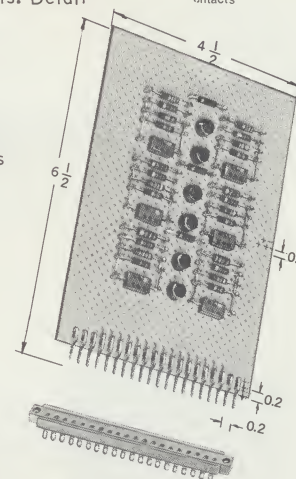


Fig. 3

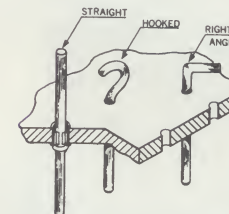
PLUGBORD 842-120

with added components

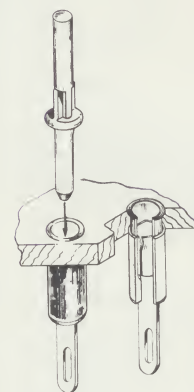


Inbord-Pin K24 Type
Fig. 4

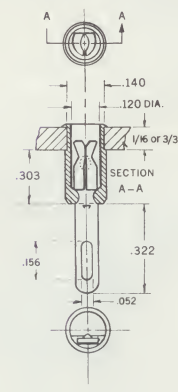
RW 120S Vectorconn
Receptacle



Tab Treatment
Fig. 5



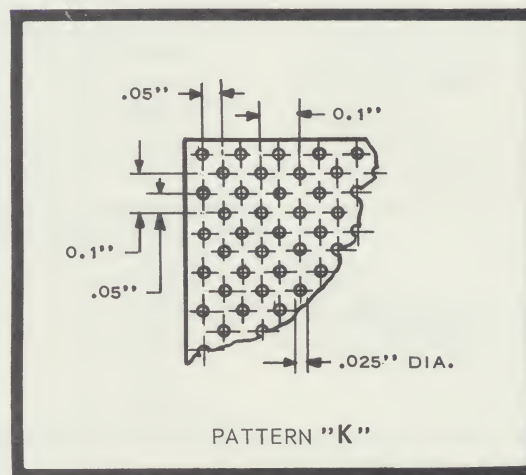
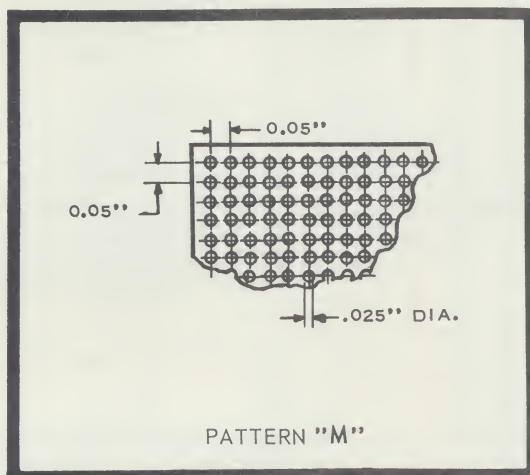
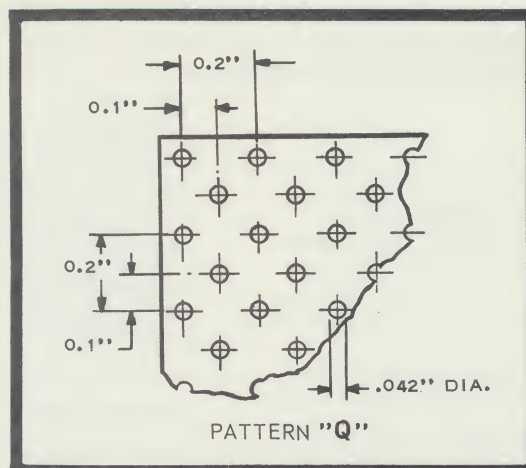
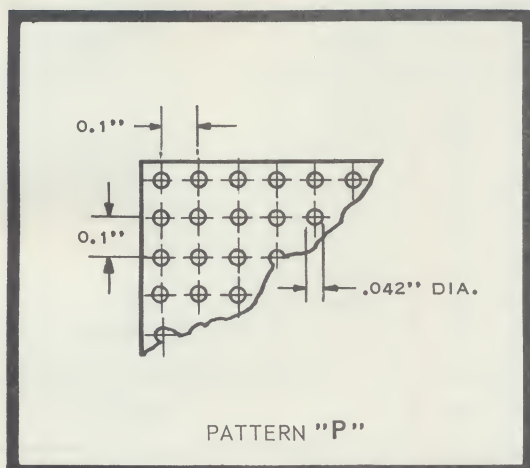
Installed
Cup Receptacle



Cup Receptacles
R23A, R24A

Fig. 6

No. of Holes (Length) — 59 P 19 /032C1
 Pattern of Holes Layout — Thickness of Board
 (.042" dia. holes on 0.1" ctrs.) — No. of Holes (Width)



MICRO VECTORBORD

Micro pattern VECTORBORD is pre-punched insulating board with an overall grid of small closely spaced holes designed for use with micro-miniature modules or other small components. With these small patterns, the user can achieve higher component density than previously available with pre-punched boards.

The hole sizes and grid pattern arrangements are available as follows:

Pattern "P" ----- .042" dia. holes on 0.1" grid

Pattern "Q" ----- .042" dia. holes on 0.1" / 0.2" grid

Pattern "M" ----- .025" dia. holes on .050" grid

Pattern "K" ----- .025" dia. holes on .05" / 0.1" grid

MICRO-VECTORBORD is especially useful in making cord-wood modules. Small plug-in circuit cords with edge mounted plug elements can also be quickly made, using available connectors.

Board material unclad and 2 oz. copper clad epoxy-glass Type: GEE, Grade G-10 per Mil P-18177 Thickness offered range from 1/64" to 3/64" as indicated in table. Other special sizes and hole arrangements are available on order -- consult factory.

VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area -213 Phone 245-8971

Vectorbord*

PRE-PUNCHED INSULATING BOARDS

Vectorbord provides a convenient and economical method for assembling circuit components in both experimental and production units.

ECONOMICAL

Pre-punched Vectorbord cuts costs by eliminating most if not all, time consuming board drilling operations. Convenient, ready to use Vectorbord makes it possible to get to actual assembly at once.

VERSATILE

Offered in a wide range of sizes, a variety of materials and a selection of pre-punched hole patterns, Vectorbord is suited for a wide range of requirements. In addition to the standard boards listed on pages 3 and 4 of this section, special patterns and sizes may be ordered from the factory (see page 2).

Each of standard grid patterns shown with the exception of Micro-Vectorbord (See pages 5 & 6) is available in 1/16" thick panels. Patterns "A", "C" & "L" are available in 3/32" XXXP Phenolic or Epoxy Paper panels.

Vectorbord accepts eyelets, standard turned or Vector Push-in terminals as well as self tap screws for attaching necessary hardware. .093" holes accept #4 self-tap screws (#2 or #3 for clearance); .062" holes accept #2 self-tap screws (#0 for clearance).

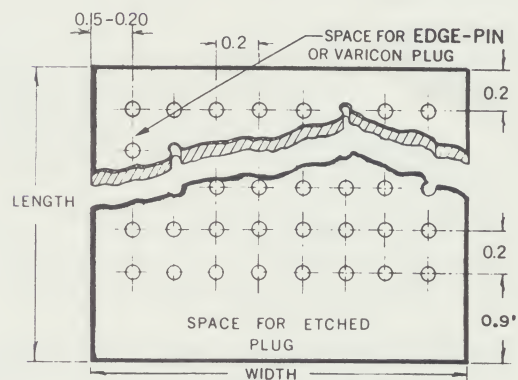
APPLICATIONS

Vectorbord is recommended for both experimental work where pre-punching enables changes to be made freely and for many production jobs where production time can be greatly reduced by employing pre-punched Vectorbord.

Patterns "A" & "L" are recommended for general experimental work using Vector T9.4 or T9.6 Push-in terminals, turned terminals or solderless T30 & T32 Springclips. .093" holes in this pattern are spaced on a .265" grid for "A" pattern, and .250" grid for "L" pattern. For circuits using transistors, pattern "E" with .062" holes on 0.141" centers, is the same as "G" except oriented at 45° to the borders. Pattern "F" has .062" holes on 0.2" centers. Transistor leads can be passed directly down thru the holes so that the transistor cover rest on the board where patterns "E", "G" and "H" are used. Pattern "H" with .062" holes on 0.1" center provides high component density. For additional patterns see tables on pages 3 & 4.

*TRADEMARK

*for experimental
and production work*



3106-1WE, 3106-2WE, 3070-1WE, 3070-2WE

COPPER-CLAD VECTORBORD

Economical Copper-Clad Vectorbord is ideal for making etched circuits. This convenient laminated board is available with 2 ounce copper (.003") on one or both sides. It can be obtained in 1/16" Epoxy Glass, Epoxy Paper or XXXP Phenolic in "F" or "G" patterns or without pre-punched holes. While the "F" pattern is considered best for etching by providing sufficient space for lines of the copper, the "G" pattern having 1/16" holes on alternate centers of a 0.1" grid is also stocked. New "Coppco" solves conductor routing problems with copper covered holes. See Section II page 4A.

Pre-punched boards are available to fit the extruded grooves of Vector-Pak cases so that no special board mounting brackets are required. Suitable boards are listed in tables pages 3 and 4. On most listed boards connectors can be mounted on one or both ends so that boards plug-in, and test points can be provided. See Vectorconn receptacles Section IV-A and Elco Varicons Section IV.

When making printed circuits, thin masking tapes may be quickly applied to the Vectorbord where copper lines are desired. Also available from Vector is a new product, Vectoresist, a "rub-on" etch resist transfer sheet. This exceptionally easy method of making neat, clean, etched circuits is offered in sheets combining lines, circles, ellipses, pads, solid areas and standard 0.156" spaced plug contact transfers to match P.C. receptacles. Simple application is made by rubbing desired figures onto Copper-Clad Vectorbord. (See Section IX for details). Vector 27XA Etched Circuit Kit provides all necessary materials to make etched circuit boards. (See Section IX for details).

MATERIALS

Natural Phenolic - Type: PBE-P, Grade XXXP per Mil P-3115. The most economical and popular member of the Vectorbord family. Furnished as standard unless otherwise specified. Available in 3/32" or 1/16" thickness (Patterns B, E, F, H & G-1/16"). A cold punching type, maximum operating temperature is 250° F. Color is tan.

Epoxy Paper - Type: PEE, Grade EXXXP per Mil P-22324. Recommended when strength as well as economy is a factor. Available in 3/32" or 1/16" thickness (Patterns B, E, F & G-1/16" only). A cold punching type, maximum operating temperature is 250° F. Color is ivory.

Epoxy Glass - Type: GEE, Grade G-10 per Mil P-18177. A desirable material where maximum tensile and shear strength, higher maximum temperature, minimum moisture absorption, and higher insulation resistance are required. Available in 1/32" and 1/16" thickness. Maximum operating temperature is 300° F.

Glass Silicone - Type: GSG, Grade G-7 per Mil P-997. An excellent board where high temperature is a factor plus the qualities described in the previous paragraph are required. Available in 1/16" thickness only. For use at temperatures up to 450° F. Color is white.

Natural Phenolic - Copper-Clad - Type: PP, Grade XXXP per Mil P-13949. Supplied with 2 oz. (.003) copper-clad on 1 or 2 sides. Available in 1/16" thickness. Phenolic is the most economical material.

Epoxy Glass - Copper-Clad - Type: FL-GE, Grade G-10 per Mil P-13949. Supplied with 2 oz. (.003) copper-clad on 1 or 2 sides. Ideal for making top quality etched circuits.

UNPUNCHED VECTORBORD

Small unpunched pieces of Vectorbord are offered in "off-the-shelf" sizes as listed. To drill special hole layouts, a piece of pre-punched Vectorbord or Vector layout paper can be used as a template.

TOLERANCES

Pitch - $\pm 0.007''$ per inch
1/16" thickness - $\pm 0.008''$ Hole Size:
3/32" thickness - $\pm 0.01''$ See pattern illustrations.

Ordering information for standard Vectorbord may be found on the following pages.

SPECIAL SIZES & PATTERNS

Special sizes and hole layouts can be made to order if one of the standard catalog items does not meet requirements. All patterns except "G" and "H" are punched a single row at a time so that spacing can be changed in one direction if special applications so require. Spacing can be further modified by removing punches to eliminate rows of holes in the other direction. The press feed may be set at 0.1", 0.146", 0.156", 0.188", 0.2", 0.25", 0.265" or their multipliers.

Special sizes of Vectorbord not listed on the tables on pages 3 and 4 can usually be cut to order from large sheets (moderate set-up charge). When ordering sawed boards, customers should allow standard borders and tolerances as follows: with patterns "A" and "C", allow 0.13" to 0.15" from edge to centerline of holes; for all other patterns allow .093" to 0.125". With patterns "G" & "H" a smooth edge cannot be obtained in sawing boards from large ones because of the closeness of the holes. The sawed edges will normally pass through the center line of one row of holes producing a scalloped edge. This can be covered by use of Vector "Kardej" if desired. (See Section II, Page 4B)

When ordering special size boards the following MAXIMUM BOARD WIDTHS apply:

Patterns "A", "L" & "F" in phenolic, Epoxy paper or glass laminates : 20"

Patterns "B", "C", & "E" all materials: 6"

Pattern "G" in phenolic, Epoxy paper & Epoxy glass: 20"

Pattern "H" in Epoxy glass: 4.8"

Unless specified otherwise above, the maximum length for glass silicone and Epoxy glass is 34½" and for all other materials is 38"

SPECIAL DRILLED PANELS

Special drilled panels can be made at low cost on production type drilling machines where the punched types described are not suitable. (A moderate drill template charge is made). Use of Vectorbord for prototypes, followed by Vector production drilled boards (etched if desired) with only the desired holes present, can be highly efficient and economical. Quotations on request.

ACCESSORIES

TERMINALS

A complete line of terminals is available from Vector including Solderless, Push-in and Turned type. These will be found in Section VII.

LAYOUT PAPER

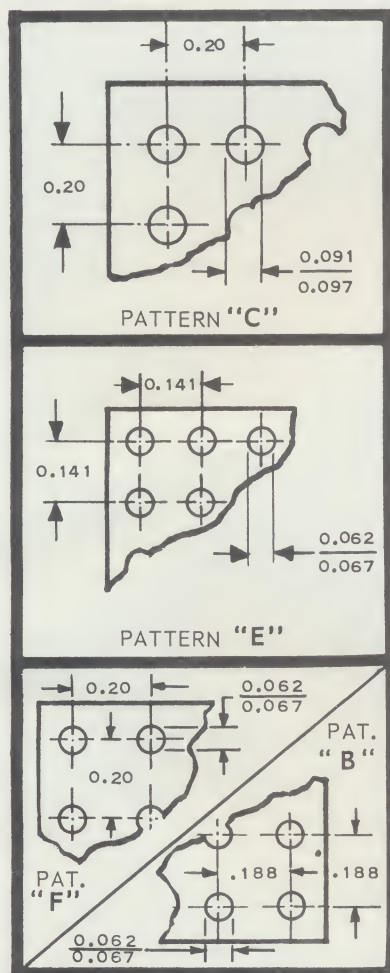
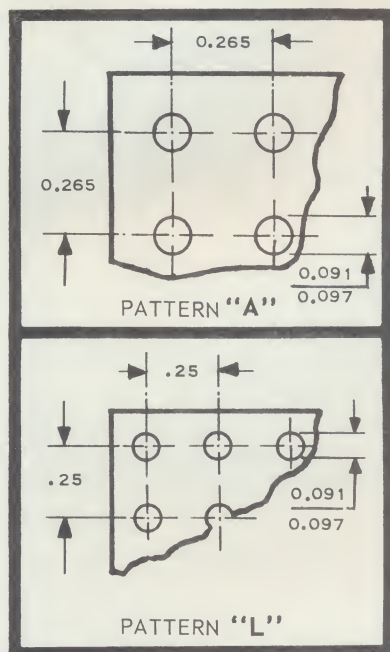
Grid paper is available for most of the hole patterns. With this the circuit may be planned in advance and when laid over the board, grid paper facilitates placement of components. (Black Ink, except R173G, Blue).

GRID PAPER ORDERING INFORMATION

Catalog No.	Size	Pattern
R173A-1	8½" x 17"	A
R173A	8½" x 11"	A
R173F	8½" x 11"	F
R173G	8½" x 11"	G
R173H	8½" x 11"	H

Supports - Aluminum, wood or pin style supports are available. (See Section IX for full details).

PRE-PUNCHED INSULATING BOARDS PATTERNS. A, B, C, E, F, L.



* Irregular Borders.
** Space for Etched Plug on one side.

PAT. TERN	MATERIAL	CAT. NO. "L" PAT.	CAT. NO. "A" PATTERN	LENGTH	WIDTH	THICK.	NO. OF HOLES
A & L	XXXP PHENOLIC	17L11		4.5	3.0	1/16	
			18A18	4.8	4.8	1/16	18X18
		26L18		6.5	4.5	1/16	
			32A3	8.51	.82	1/16	32X3
			32A9	8.51	2.41	1/16	32X9
		34L19	32A18	8.51	4.80	1/16	32X18
		68L19	64A18	16.99	4.80	1/16	64X18
		68L34		16.99	8.51	1/16	
			72A32	19.11	8.77	1/16	72X32
			32A A7	8.51	1.88	3/32	32X7
	EPOXY PAPER		32A A9	8.51	2.41	3/32	32X9
			32A A18	8.51	4.80	3/32	32X18
		68LL19	64A A18	16.99	4.80	3/32	64X18
			64A A32	16.99	8.51	3/32	64X32
		140LL68	64A A132	35.01	16.99	3/32	64X132
E	EPOXY GLASS		32A A18EP	8.51	4.80	3/32	32X18
			64A A18EP	16.99	4.80	3/32	64X18
			64A A32EP	16.99	8.51	3/32	64X32
		140L68EP	132A64EP	35.0	17.0	1/16	132X64
	GLASS SILICONE		32A18WE	8.51	4.80	1/16	32X18
			64A18WE	16.99	4.80	1/16	64X18
			64A32WE	16.99	8.51	1/16	64X32
			64A18W	16.99	4.80	1/16	64X18

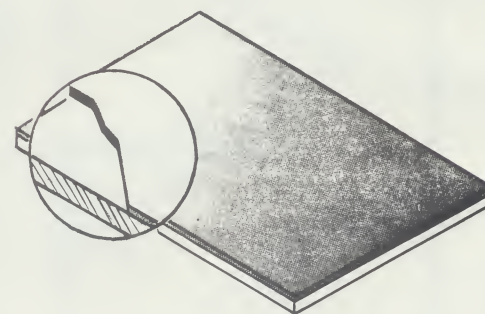
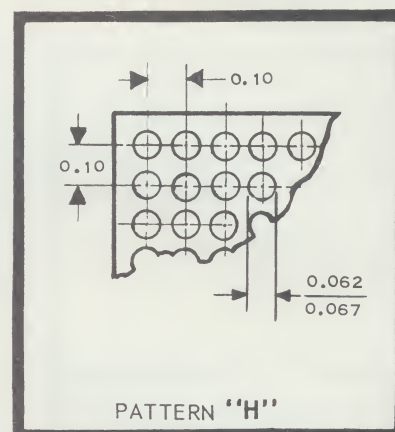
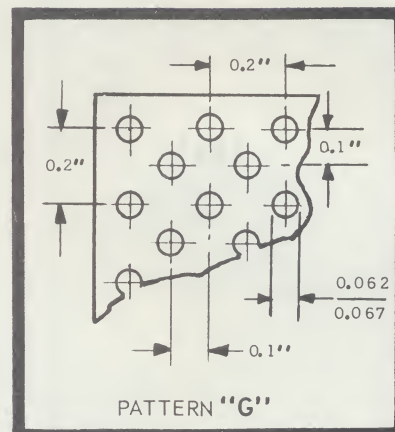
PATTERN	MATERIAL	CAT. NO.	LENGTH	WIDTH	THICK.	NO. OF HOLES
B	XXXP PHENOLIC	45B30	8.51	5.69	1/16	45 X 30
		90B30	16.97	5.69	1/16	89 OR 90 X 30
C	XXXP PHENOLIC	85C24 *	16.99	4.80	1/16	85 X 23
E	EPOXY-PAPER	120E33EP	17.00	4.80	1/16	120 X 33
	EPOXY-GLASS	120E33WE	17.00	4.80	1/16	120 X 33
F	EPOXY-PAPER	85F24EP *	16.99	4.80	1/16	85 X 23
	EPOXY-PAPER	85F42EP *	16.99	8.51	1/16	85 X 42
	EPOXY-GLASS	175F99WE	35.00	20.00	1/16	175 X 99
	COPPER-CLAD					
	XXXP PHENOLIC	3106-1 XXXP **	4.5	3	1/16	18 X 14
	COPPER-CLAD	3070-1 XXXP **	6.5	4.5	1/16	28 X 22
	1 SIDE	42F22 C1	4.5	8.51	1/16	42 X 22
	XXXP PHENOLIC	3106-2 XXXP **	4.5	3	1/16	18 X 14
	COPPER-CLAD	3070-2 XXXP **	6.5	4.5	1/16	28 X 22
	2 SIDES	42F22 C2	4.5	8.51	1/16	42 X 22
	EPOXY-PAPER	3070-1 EP **	6.5	4.5	1/16	28 X 22
	COPPER-CLAD	3106-1 EP **	4.5	3	1/16	18 X 14
	1 SIDE					
	EPOXY-PAPER	3070-2 EP **	6.5	4.5	1/16	28 X 22
	COPPER-CLAD	3106-2 EP **	4.5	3	1/16	18 X 14
	2 SIDES					
	EPOXY-GLASS	3106-1 WE **	4.5	3	1/16	18 X 14
	COPPER-CLAD	3070-1 WE **	6.5	4.5	1/16	28 X 22
	1 SIDE	85F42 WEC1	16.99	8.51	1/16	85 X 42
		42F22 WEC1	8.5	4.5	1/16	42 X 22
	EPOXY-GLASS	3106-2 WE **	4.5	3	1/16	18 X 14
	COPPER-CLAD	3070-2 WE **	6.5	4.5	1/16	28 X 22
	2 SIDES	85F42 WEC2	16.99	8.51	1/16	85 X 42
		42F22 WEC2	8.5	4.5	1/16	42 X 22

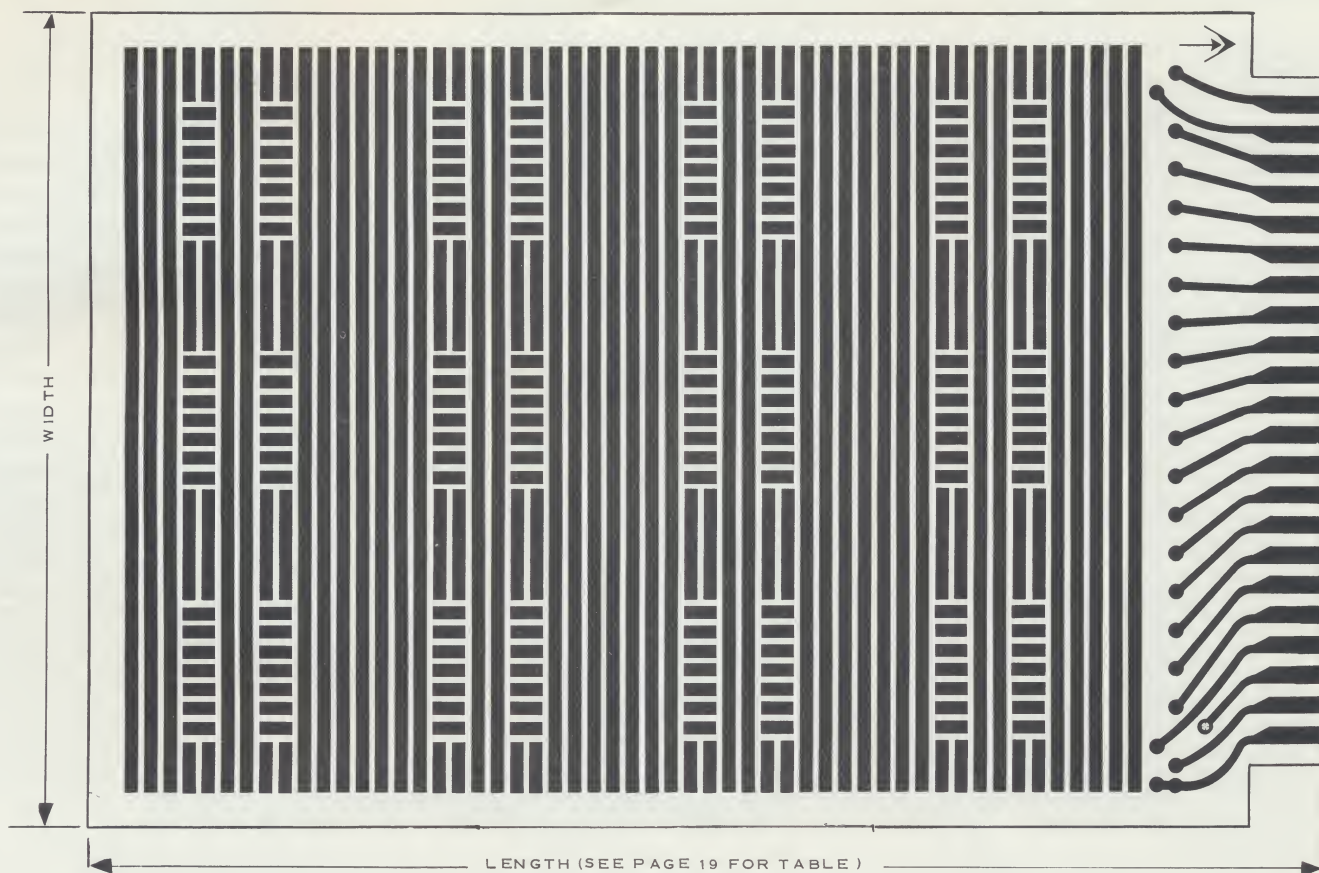
PRE-PUNCHED INSULATING BOARDS

PATTERNS "G", "H" AND UNPUNCHED

CAT. NO.	LGTH.	WIDTH	THICK.	NO. OF HOLES	MATERIAL	PATTERN	
42G24*	8.51	4.80	1/16"	(42X23)X2	XXXX Phenolic	G	
42G42*	8.51	8.51	1/16"	(42X2)X(42&41)			
85G24*	16.99	4.80	1/16"	(85X24)X2			
85G42*	16.99	8.51	1/16"	(85X2)X(42&41)			
95G43	19.00	8.60	1/16"	(95X43)X2			
95G87	19.00	17.40	1/16"	(95X86)X2			
95G175	19.00	35.00	1/16"	(95X175)X2			
42G24EP*	8.51	4.80	1/16"	(42X23)X2	Epoxy-Paper		
42G42EP*	8.51	8.51	1/16"	(42X2)X(42&41)			
85G24EP*	16.99	4.80	1/16"	(85X23)X2			
85G42EP*	16.99	8.51	1/16"	(85X2)X(42&41)			
42G24WE*	8.51	4.80	1/16"	(42X23)X2	Epoxy-Glass		
42G24WE/.032	8.51	4.80	1/32"	(42X23)X2			
42G42WE*	8.51	8.51	1/16"	(42X2)X(42&41)			
85G24WE*	16.99	4.80	1/16"	(85X23)X2			
85G42WE*	16.99	8.51	1/16"	(85X2)X(42&41)			
85G24W	16.99	4.80	1/16"	(85X23)X2	Glass Silicone		
COPPER-CLAD							
42G22WEC1	8.5	4.5	1/16"	(42X22)X2	Epoxy-Glass Copper-Clad 1 Side		
42G22WEC2	8.5	4.5	1/16"	(42X22)X2	Epoxy-Glass Copper-Clad 2 Sides		
H							
170H48WE/032	17.00	4.80	1/32"	47X169	Epoxy-Glass	H	
170H48EP	17.00	4.80	1/16"	47X169	Epoxy-Paper		
U N P U N C H E D							
17/8.5XXXXP	17.00	8.5	3/32"		XXXX Phenolic	U N P U N C H E D	
17/4.8WE	17.00	4.8	1/16"		Epoxy-Glass		
COPPER-CLAD							
CU45/30-1	4.5	3	1/16"		XXXX Phenolic Copper-Clad 1 Side		
CU65/45-1	6.5	4.5	1/16"				
CU85/45-1	8.5	4.5	1/16"				
CU45/30-2	4.5	3	1/16"		XXXX Phenolic Copper-Clad 2 Sides		
CU65/45-2	6.5	4.5	1/16"				
CU85/45-2	8.5	4.5	1/16"				
CU45/30WE-1	4.5	3	1/16"		Epoxy-Glass Copper-Clad 1 Side		
CU65/45WE-1	6.5	4.5	1/16"				
CU85/45WE-1	8.5	4.5	1/16"				
CU65/45WE-2	6.5	4.5	1/16"		Epoxy-Glass Copper-Clad 2 Sides		
CU85/45WE-2	8.5	6.5	1/16"				

* Irregular Borders.





D.I.P. PLUGBORD (Full Scale FRONT VIEW of Printed Circuit Type. See Page 18 for Back View).

NOTE: .041" Dia. x 0.1" Spaced Holes Not Shown

VECTOR D.I.P. PLUGBORD (Dual-In-Line Package)

GENERAL

Vector D. I. P. Plugboards with pads for integrated circuits are designed for experimenters or small production jobs. These pre-punched, pre-etched, and pre-tinned modified "x-y" matrix plugboards provide convenient and efficient means for quick connection of integrated circuit packages and associated components of the Dual-In-Line type.

Plugboard holes register with the Dual-In-Line tabs or sockets. The Dual-In-Line tabs may be used with or without the socket. Augat, Barnes, or AMP D. I. P. sockets or AMP individual cup sockets may be used in plugboard holes. To ensure a solid connection, the etched tinned copper lines (.070" wide, hole spacing 0.1") can be readily connected to the Dual-In-Line tabs inserted into the plugboard holes by soldering. Plugboard holes may have to be "opened up" somewhat for sockets.

The use of the socket with the Dual-In-Line tabs ensure a firm connection and at the same time provides a quick means of changing the circuit.

Breaks are provided in the etched lines at appropriate places to ensure that D. I. P. tabs will not be shorted out. Parallel copper lines run in the "x" direction on the opposite side (except for plugboards having lines on one side only). In

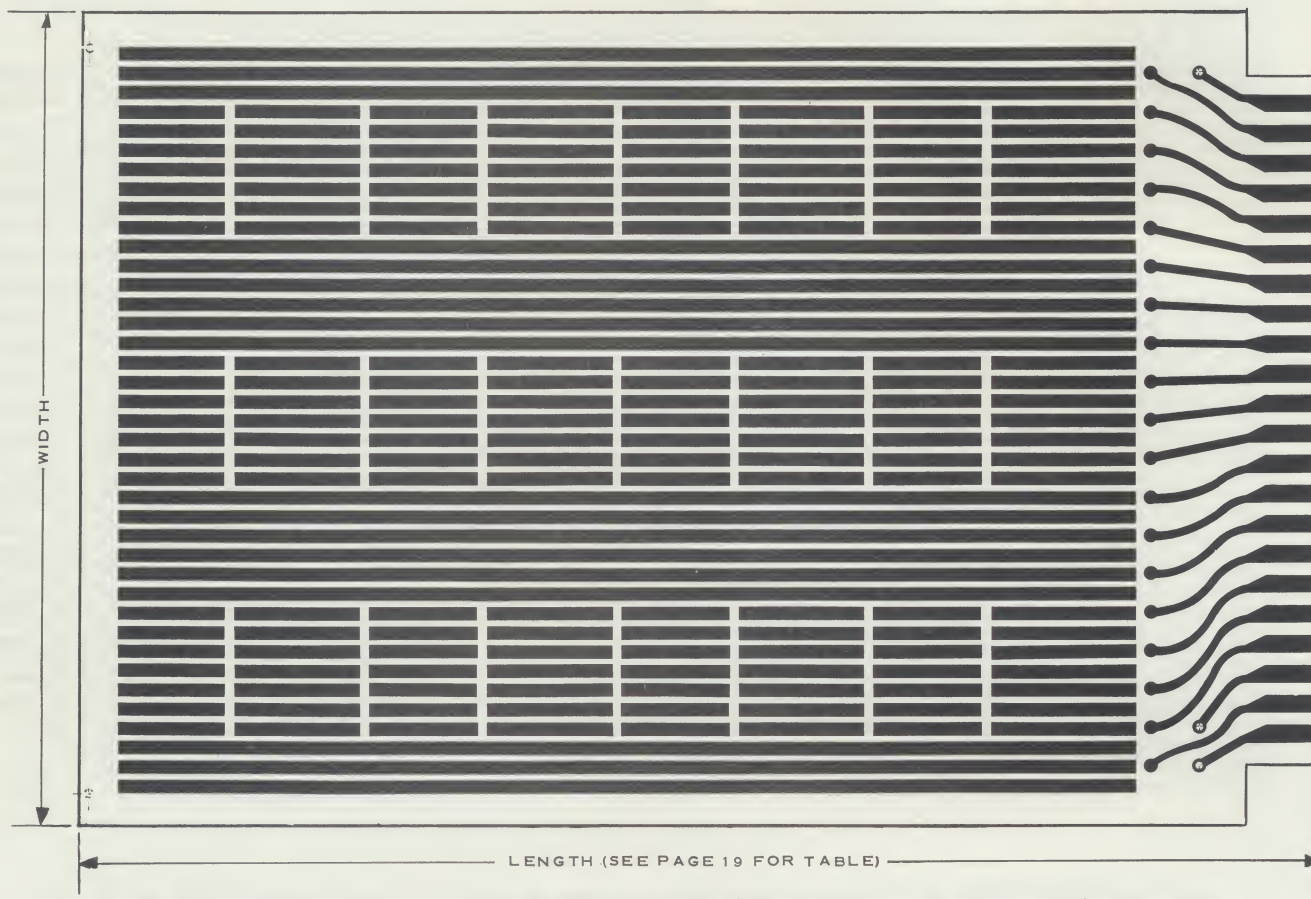
order to use the lines for interconnection Vector inboard or other suitable pins are inserted where an "x" to "y" connection is desired. (The "y" connection runs the long way of the plugboard. The "x" connection runs the short way of the plugboard).

BREAKING THE MATRIX LINES.

The copper lines can be broken where required by means of a pad cutter so that a wide range of interconnections can be readily made. For connections which cannot be readily made in this manner, the user may connect random wiring from point-to-point using the inserted pins. Soldering, welding, or conventional wire-wrap may be used when suitable equipment is available. Patching may be used to interconnect the .040" diameter pins for experimental work by using available Vector contacts. The protruding pins also serve as convenient male test points. Vector test probe, catalog No. P-3, is available for this use.

"KARDEJ" FRAME ADVANTAGES.

Due to the large number of holes in the D. I. P. plugboard "KARDEJ" aluminum frames are added for reinforcement. The "KARDEJ" frames the plugboard and provides a "tongue" to slip into card guides. The "KARDEJ" also serves as a



D.I.P. PLUGBORD (Full Scale BACK VIEW of Printed Circuit Type. See Page 17 for Front View).

NOTE: .041" Dia. x 0.1" Spaced Holes Not Shown.

handle for inserting and removal of the plugboard from the Frame-Loc chassis. Plugboards may be purchased with the "KARDEJ" frame.

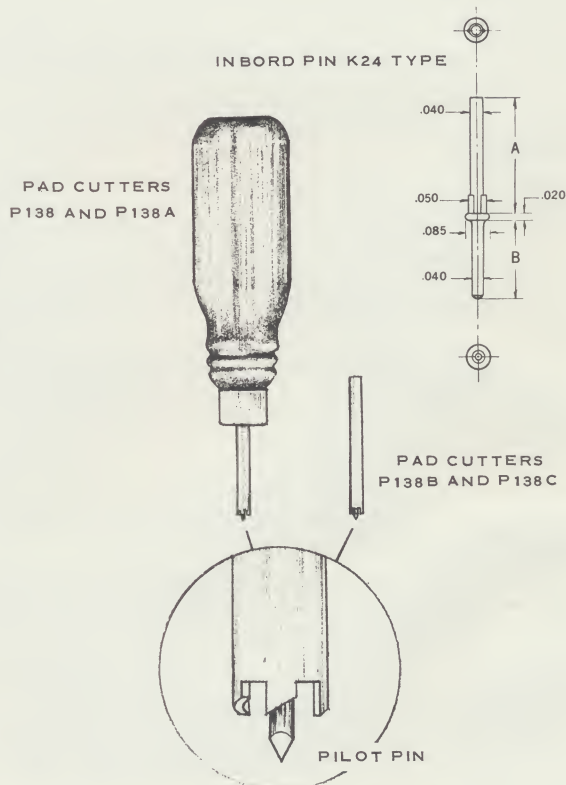
For convenient horizontal work on a table, the D. I. P. plugboards may be snapped into a Vector Frame-Loc chassis.

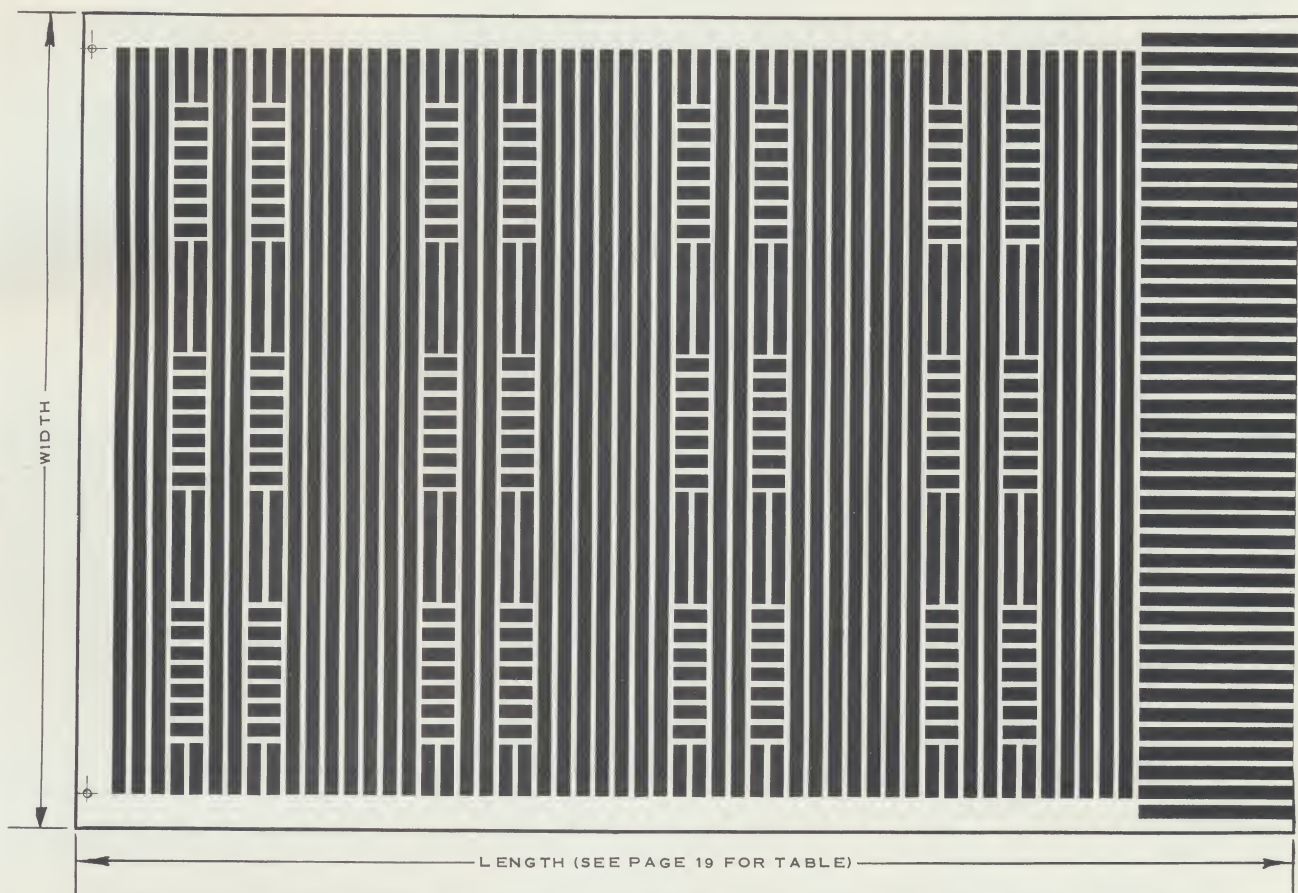
PAD CUTTER TOOLS.

Pad cutter tools provide a simple means of interrupting the matrix copper lines. Pad cutter tools have a pilot pin which enters the plugboard hole. By rotating the cutter a "dough-nut" shape cut is produced which interrupts the line and leaves a small copper ring which may be used to secure the inserted wire or pin. The P138 and P138A pad cutters, with the handle, are hand-operated tools. The P138B and P138C pad cutters, without the handle, are used in a drill press.

CONNECTOR OPTIONS

The user may select his preferred type of connector. If no particular type is desired, plugboard arrangement having .070" wide copper lines extending to the shorter edge of the plugboard is recommended. With this type of plugboard one can have a choice of Varicon, Vectorconn, or printed circuit connectors such as Viking VH 40/1J5 type which fits 0.1" spaced printed circuit tabs.





D.I.P. PLUGBORD (Full Scale FRONT VIEW of 0.1" Tab Type. See Page 20 for Back View).

NOTE: .041" Dia. x 0.1" Spaced Holes Not Shown.

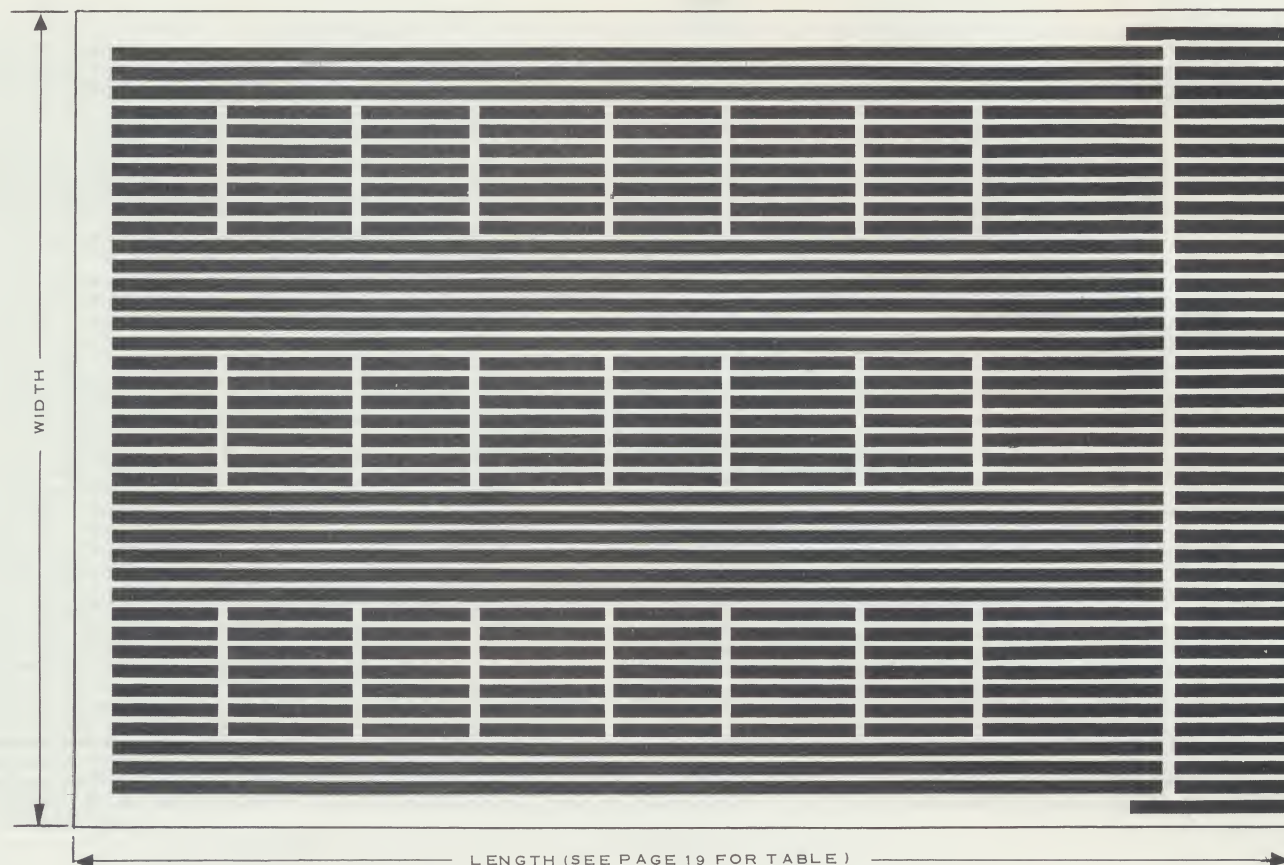
ORDERING INFORMATION

NOTE: All plugbords listed have an overall pattern "P" hole system of .041" Dia. holes on 0.1" spaced grid.

CAT. NO.	DESCRIPTION D.I.P. PLUGBORDS	WIDTH "WITH "KARDEJ"	LENGTH "WITH "KARDEJ"	THK.	CONTACT TYPE	RECEPTACLE TYPE
3474	x-y matrix pattern with 44 etched contacts	4.500"	6.500"	.062"	22/44 .156" P. C. Tabs	R644
3474-2	Board with 44 etched contacts - no matrix pattern		6.500"		22/44 .156" P. C. Tabs	R644
3474-3	y-matrix one side - 22 etched contacts		6.500"		22 .156" P. C. Tabs	R644
3475	x-y matrix pattern with 39 edge-pin contacts		6.30"		39 Vector edge-pins double tier	RW241-S plus B60 guides
3475-2	Board with 39 edge-pin contacts - no matrix pattern		6.30"			RW241-S plus B60 guides
3476	x-y matrix pattern with 35 Elco Varicon contacts		6.500"		35 Varicon pins, double tier	Varicon R635
3476-2	Board with 35 Elco Varicon contacts - no matrix pattern	4.500"	6.500"		35 Varicon pins, double tier	Varicon R635
3477	x-y matrix board	No KARDEJ 4.230"	provided 6.367"		39 tabs on 0.1 ctrs. each side	Viking VH40/IJ5 or equiv. if reqd.*
3477-2	y-matrix board, one side only	No KARDEJ 4.230"	provided 6.367"	.062"	39 0.1 tabs 1 side	*

*Receptacles are available with 6 to 100 contacts from Viking. This board intended mainly for breadboard use without receptacle.

PLUGBORDS



D.I.P. PLUGBORD (Full Scale BACK VIEW of 0.1" Tab Type. See Page 19 for Front View).

NOTE: .041" Dia. x 0.1" Spaced Holes Not Shown.

SPECIFICATIONS

- INSULATION: Epoxy-paper per MIL-P-22324, Type PEE, Ivory Color, 250°F. Max. Temp.
- COPPER CLADDING: 2 ounce (.0028" thk), 1 or 2 sides.
- HOLE PATTERN: Vector "P" pattern, holes clear thru, 0.1" centers .041" dia. (not shown in figure).
- PLUG TYPES: Choice of (a) Printed Circuit Tabs 0.156" spaced, 22/44 Max. Tabs or 0.10" spaced, 40/80 tabs; (b) Standard Varicon Double Tier, 0.1" spaced, 35 Max. Blades; (c) Vector Edge-pin (.40" dia. pins), Double Tier, 0.1" spaced, 39 Max. Pins.
- FRAME: Aluminum "KARDEJ" for card reinforcement, Warp elimination, labelling and for easier handling.
- MATRIX LINE PATTERN: Etched Copper lines .070" wide, spaced 0.1" in "x" direction on one side of plugboard and in "y" direction on opposite side of plugboard.

ACCESSORIES

CAT. NO.	DESC.	HANDLE	O.D. CUT	PILOT CUT
P138	Pad Cutter	Yes	.125"	.030"
P138A	Pad Cutter	Yes	.125"	.040"
P138B	Pad Cutter	No	.125"	.030"
P138C	Pad Cutter	No	.125"	.040"
P139	Line Cutter	Yes	---	---

K24A Inbord Pins (.040" dia. x .63") Nkl Pl. Gold Flash. See further description page 12, Section IV of Catalog.

K24C Inbord Pins (.040" dia. x .63") Bright Tin. See further description page 12, Section IV of Catalog.

K26C Inbord Pins (.040" dia. x .36") Bright Tin. See further description page 12, Section IV of Catalog.

P3 Test Probe

Augat No. 314AG-1A Socket for Dual-In-Line Integrated Circuit Packages. Order Direct from Augat, Attleboro, Mass.

AMP No. 50462-5 Individual Pin Connector for D.I.P. Integrated Circuit Tabs. Order direct from AMP, Inc., Harrisburg, Pa.

VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area - 213 Phone 245-8971

T W X 9 10-497-2283

PRICE LIST

EFFECTIVE MARCH 17, 1967

D.I.P. PLUGBORDS 4-1/2" X 6-1/2" PERFORATED WITH "P" PATTERN IN ALL
EXCEPT CONTACT AREA

Etched lines running 90 degrees to each other, .070 wide with pad layouts
for D.I.P. Packages:

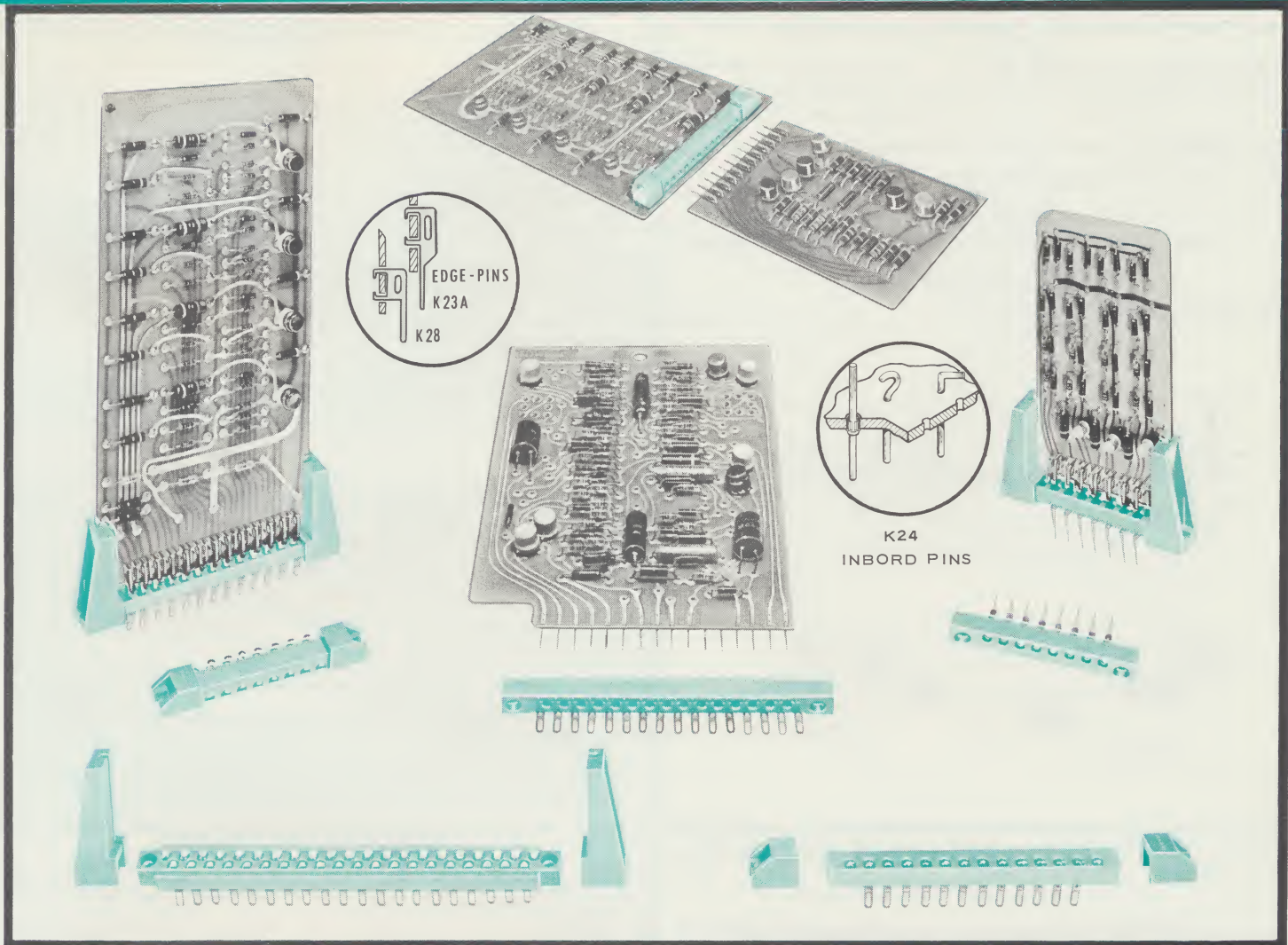
	Base 1-19 ea.
3474 - Matrix board - 44 etched contacts	\$ 10.50 ea.
3474-2 - Same as 3474 but no matrix	7.95 "
3474-3 - Same as 3474 one side only	7.98 "
3475 - Matrix board - 39 Edgepins	10.57 "
3475-2 - Same as 3475 but no matrix	4.95 "
3476 - Matrix board - 35 Varicons	11.40 "
3476-2 - Same as 3476 but no matrix	5.68 "
3477 - Matrix board only - no contacts	6.89 "
3477-2 - Matrix board, pattern one side only	4.28 "
P138 - Pad Cutter, hand tool	3.00 " any quan.
P138A - Pad Cutter, hand tool	3.00 " " "
P138B - Pad Cutter for drill press	1.98 " " "
P138C - Pad Cutter for drill press	1.98 " " "

For larger quantity prices or additional information please write to the
factory.

Terms: Net 30 days, F.O.B. our plant, Glendale, California

Prices subject to change without notice.

R-545



CONNECTORS

VERSATILE NEW VECTOR-CONN CONNECTORS (for .040" diameter round pins)

FEATURING

- Contact Reliability
- Large Variety of Sizes
- Top, Bottom, or Side Mounting Styles
- Solder Tab or Printed Circuit Tab
- Optional Card Guide Ends

VECTORCONNS employ wrap around contacts with outstanding reliability time proven in the tube socket industry. Receptacles accept available Vector Edgebord and Inbord pins or any .040" diameter round pins.

MANY SIZES

Standard off-the-shelf sizes are offered with .2" spaced contacts in single tiers of 4, 8, 12, 16, 20, or 41 contacts or double tiers (0.1" tier spacing) of contacts in blocks of 9, 17, 25, 33, or 41 contacts.

TAILOR-MAKE YOUR OWN

Additional sizes with fewer contacts can be made from larger sizes by cutting off castings and installing end pieces. Receptacles of larger sizes can be made by stacking the standard sizes side by side, the width of each casting being only .3. Thus, dense plugboards or patchboards can be readily assembled.

MANY USES

Receptacles can also be used as:
Multiple test points on printed circuit boards
Front panel test points, in-out jacks, patch points.

ELECTRICAL SPECIFICATIONS

CASTINGS, END PIECES, CARD GUIDES:

Diallyl Phthalate, Glass filled per MIL-M-14 Type SDG

CONTACTS:

Beryllium copper or phosphor bronze .0001" - .0002" nickel plus .00003" gold.

ENVIRONMENTAL: Meets standard salt spray test requirements.

ELECTRICAL SPECIFICATIONS:

CURRENT RATING: 5 Amps continuous, 7.5 Amps Max.
OPERATING VOLTAGE: 600 VAC (RMS) at sea level.
TEST VOLTAGE BETWEEN CONTACTS: 1800 VAC (RMS) at sea level; 550 VAC (RMS) at 70,000 feet.
INSULATION RESISTANCE: 5000 Megohms minimum.
CONTACT RESISTANCE: .002 Ohms Avg., .005 max. (comparable to 2" length .032 copper wire). No significant change during 500 in-out cycles.
INTERCONTACT ELECTROSTATIC CAPACITY: Single row contacts 1-2 pf. Double row contacts 1-1/2 - 2-1/2 pf.

MECHANICAL SPECIFICATIONS:

INSERTION AND WITHDRAWAL FORCE: 6 to 12 oz. per contact. No significant change during 500 in-out cycles.

END PIECES P/N B61 - Symmetrical End Pieces

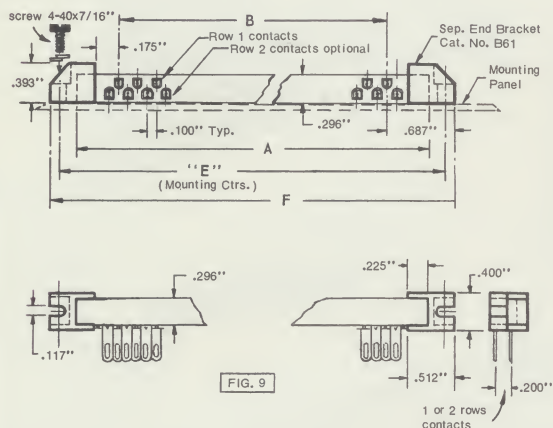
These bracket the end of the 0.3" square casting and when screwed to the chassis hold casting in place securely. They also may be bonded to the casting with epoxy adhesive.

End pieces are required only as follows:

- For side mounting of receptacles (see figure 9).
- For mounting cut-down receptacles wherein the regular mounting hole is removed (special sizes).

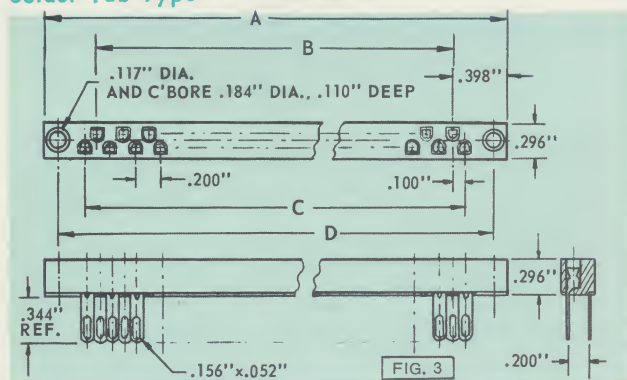
ORDERING INFORMATION

B61 End Pieces, Package of 10.

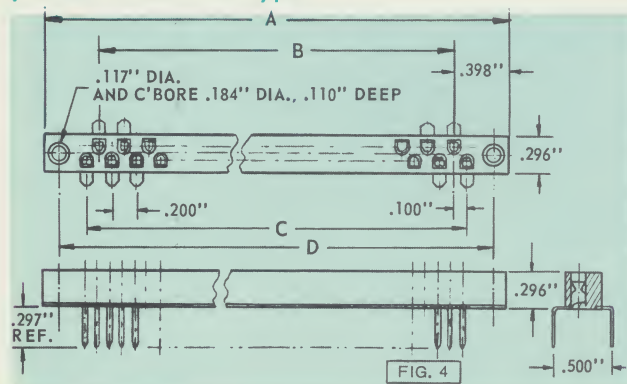


NARROW DOUBLE ROW SERIES - R-209, R-217, R-225, R-233, R-241

Solder Tab Type

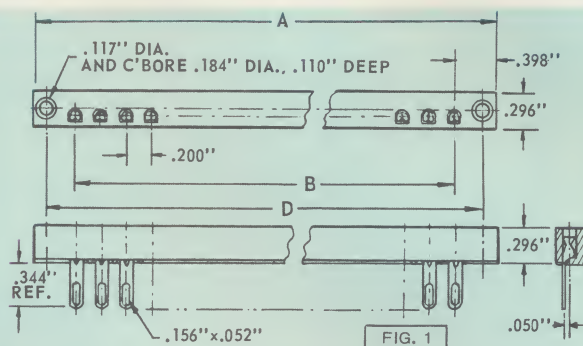


Printed Circuit Tab Type

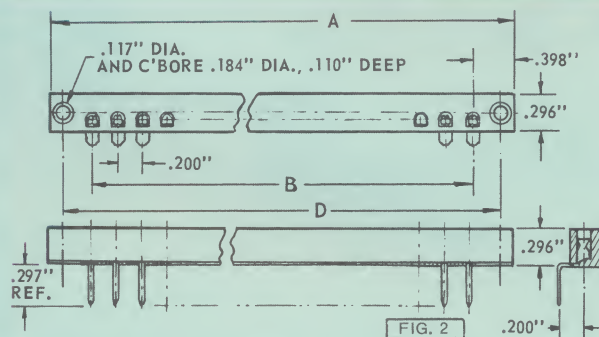


NARROW SINGLE SERIES - R-104, R-108, R-112, R-116, R-120

Solder Tab Type



Printed Circuit Tab Type



ORDERING INFORMATION

SINGLE ROW .296" WIDTH CASTING

CATALOG NUMBER	SOLDER TAB TYPE	PRINT. CIRC. TAB TYPE	NO. OF CONTACTS	DIMENSIONS			
				FOR FIG. 1, 2, 3, 4, 5, 6, 7, 8.			
				A	B	C	D ±.010
R-104-S	R-104-S	R-104-P	4	1.400	.600	.....	1.142
R-108-S	R-108-S	R-108-P	8	2.200	1.400	.....	1.942
R-112-S	R-112-S	R-112-P	12	3.000	2.200	.....	2.742
R-116-S	R-116-S	R-116-P	16	3.804	3.000	.....	3.546
R-120-S	R-120-S	R-120-P	20	4.608	3.800	.....	4.350

SINGLE ROW .450" WIDTH CASTING

CATALOG NUMBER	NO. OF CONTACTS	A	B	C	D
RW-120-S	20	4.6	3.80	.....	4.35

DOUBLE ROWS .296" WIDTH CASTING

CATALOG NUMBER	NO. OF CONTACTS	A	B	C	D
R-209-S	9	1.400	.600	.800	1.142
R-217-S	17	2.200	1.400	1.600	1.942
R-225-S	25	3.000	2.200	2.400	2.742
R-233-S	33	3.804	3.000	3.200	3.546
R-241-S	41	4.608	3.800	4.000	4.350

DOUBLE ROWS .450" CASTING

CATALOG NUMBER	NO. OF CONTACTS	A	B	C	D
RW-241-S	41	4.6	3.80	4.000	4.35

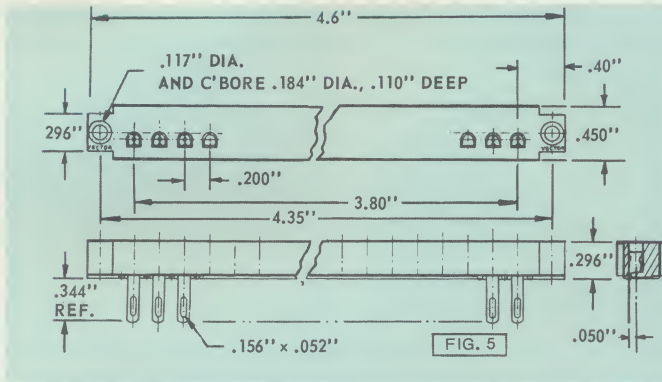
ORDERING CODE

R X X XX X
 | | | | |
 Receptacle No. of Rows 1 or 2 No. of Contacts (see table) Type of Tab - S = Solder, P = Printed
 PN = Narrow Printed

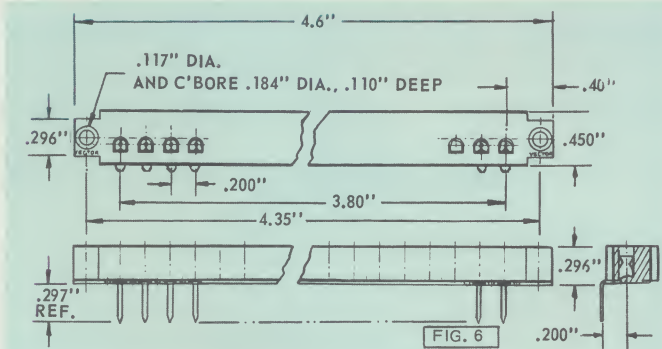
EXAMPLE - RW120-S

Wide Casting, 1 Row, 20 Contacts, Solder Tab.

WIDE SINGLE ROW SERIES RW120 Solder Tab Type Cat. No. RW120-S



Printed Circuit Tab Cat. No. RW120-P



DIMENSION TABLES

SINGLE ROW AND DOUBLE ROW .296" WIDTH CASTING

CATALOG NUMBER		DIMENSIONS - FOR FIG. 9, 10.				
SOLDER TAB TYPE	PRINT. CIRC. TAB TYPE	E	F	H	J	K
R-104-S	R-104-P	1.73	1.98	1.300	1.70	1.95
R-108-S	R-108-P	2.53	2.78	2.100	2.50	2.75
R-112-S	R-112-P	3.33	3.58	2.900	3.30	3.55
R-116-S	R-116-P	4.13	4.38	3.700	4.10	4.35
R-120-S *	R-120-P *	4.94	5.19	4.500	4.90	5.15
R-209-S	R-209-P	1.73	1.98	1.300	1.70	1.95
R-217-S	R-217-P	2.53	2.78	2.100	2.50	2.75
R-225-S	R-225-P	3.33	3.58	2.900	3.30	3.55
R-233-S	R-233-P	4.13	4.38	3.700	4.10	4.35
R-241-S *	R-241-P *	4.94	5.19	4.500	4.90	5.15

* These types should be ordered only if 0.3" width is imperative. Order .45" width instead.

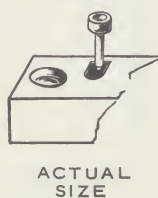
SINGLE ROW AND DOUBLE ROW .450" WIDTH CASTING

RW-120-S	RW-120-P	.....	.....	4.500	4.90	5.15
RW-241-S	RW-241-P	.....	.....	4.500	4.90	5.15

POLARIZING- Polarization is easily accomplished by insertion of a polarizing pin (Cat. No. K35) in unused contact position. When so used the corresponding pin position on the plug-in card must be removed.

PRINTED CIRCUIT TABS- Printed Circuit Tabs have double right angle bend for easy dip or wave soldering without fear of solder leakage into contact. Two printed circuit tab styles are available. A narrow type, available on special order, is supplied on the double row receptacle when used for card test points or as a card extender. (Write factory).

POLARIZING PIN K35



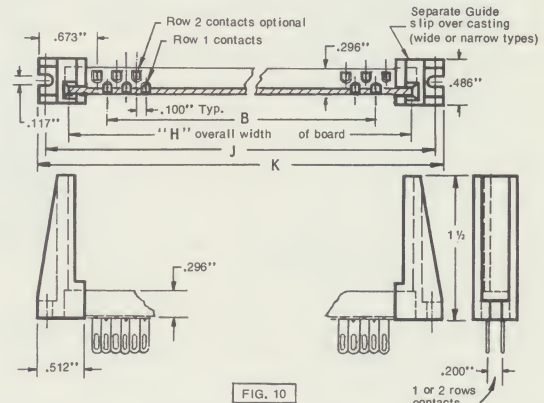
CARD GUIDES

(RIGHT P/N B60R - LEFT P/N B60L)

May be screwed down over ends of receptacle casting to (a) clamp same on chassis and (b) to provide guide for printed circuit card. May also be epoxy bonded to casting (optional). Used with standard wide or narrow casting or with cut-down narrow casting.

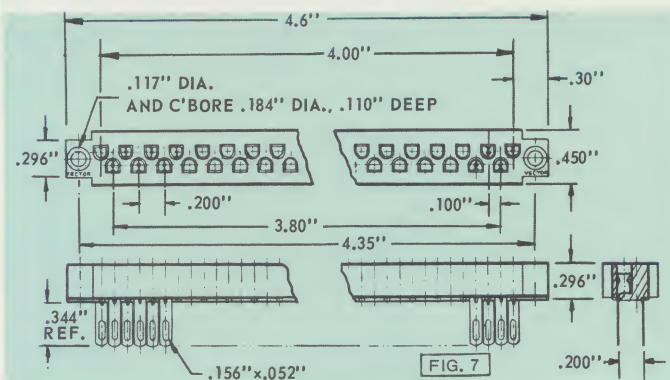
ORDERING INFORMATION

B60 Pairs of right and left card guide brackets-5 pr./pkg.

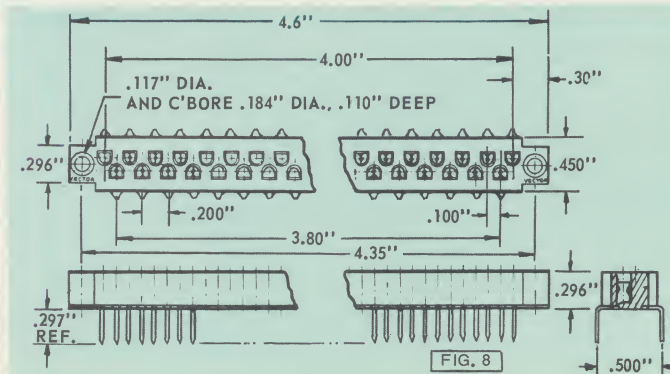


WIDE DOUBLE ROW SERIES RW241

Solder Tab Type Cat. No. RW241-S



Printed Circuit Tab Type Cat. No. RW241-P



TEST POINTS ON PLUG-IN CIRCUIT BOARDS

VECTORCONN Receptacles mounted on plug-in circuit boards, with contacts parallel to the board, make ideal multiple test points. The VECTORCONN is placed on the end opposite the Edge Pins with sockets facing outward. The contacts and Edge Pins are tied together by leads as in Figure 1. Probes of .040 diameter are used for making "front-end" checks. Printed circuit tabs with a right angle bend (special order) are best for dip solder use. Solder tabs make for easier connections in experimental or prototype work.

CARD EXTENDERS FOR LABORATORY USE

The same construction as described above and shown in Figure 1 makes an excellent extender by means of which a circuit card may be plugged into a system and still be kept clear of the cage or module for ease in performing tests or other work on its components under power-on conditions.

100% ORIENTATION

VECTORCONNS may be mounted on a flat surface with socket openings and tabs faced in any direction relative to the mounting plane. For clarification the various positions (Figure 2) are designated as: (1) & (2) parallel mounting; (4) perpendicular mounting - front face access; (3) perpendicular mounting - rear face access. In the case of position (3) it is necessary to provide slots or holes to permit the tabs to pass through the board or panel. In the case of position (4) it is necessary to provide holes (1/8") to permit access to the receptacle contacts through the board or panel. The terms front or rear face access refer to the relative position of the contact openings.

TEST POINT RECEPTACLES FOR FRONT PANEL USE

Figure 4 shows a bottom mount VECTORCONN used to provide front panel test points. Here a rectangular opening is used to give access to the contacts. Where shielding is important access is provided by drilling a series of 1/8" diameter holes in alignment with the contacts.

PATCHBOARDS OR CONNECTOR BLOCKS FROM VECTORCONNS

High density patchboards or connector blocks are made by stacking any number of VECTORCONNS side by side. Figure 3 shows a block of ten single-row, ten-contact receptacles (100 contacts) framed in a special VECTOR extrusion. Connections may be made with .040 pin patchcords (single ended or stackable); shorting plugs; plug-in modules with VECTOR Inbord K-24 type .040 pins; plug-in circuit boards with VECTOR Edge Pins.

EXPERIMENTER'S CONNECTOR K 504 VECTORCONN KIT

Versatility. Immediacy. Do-it-yourself and do it now with this kit which enables you to tailor-make any size unit you need. Simply saw off castings to the required length and slip on end brackets. The kit contains a generous supply of parts which meet the same physical and dimensional specifications as our manufactured VECTORCONNS: 14 assorted 0.3" castings; 250 assorted contacts; 30 end brackets; 20 card guides; 150 assorted edge pins 200 Inbord Pins and mounting eyelets; 30 Fillister head screws 4-40 X 7/16; 30 1/8" diameter split lock washers,

"VECTORCONN" CARD
EXTENDER AND TEST
POINT SET-UP

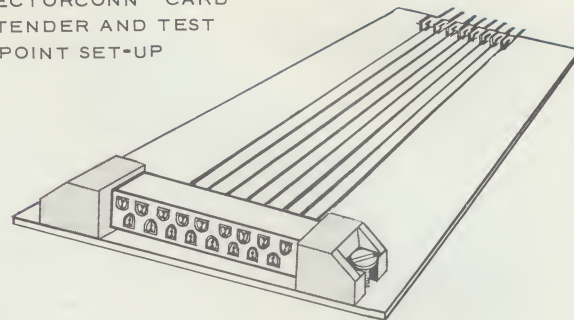


FIG. 1

ORIENTATION POSITION

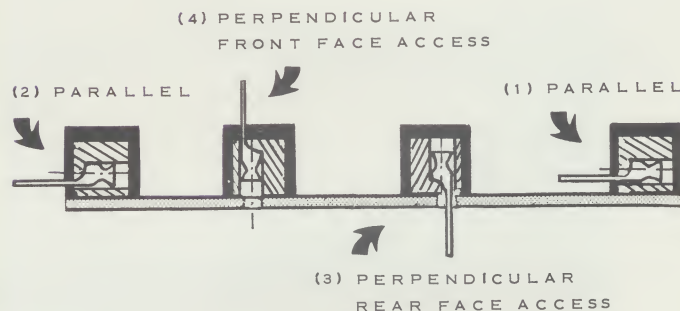


FIG. 2

PATCHBOARD CONNECTOR BLOCK
MADE WITH "VECTORCONNS"

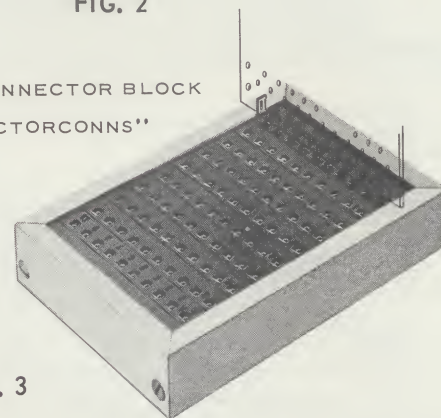


FIG. 3

INSTRUMENT PANEL
PROBE POINTS WITH
"VECTORCONNS"

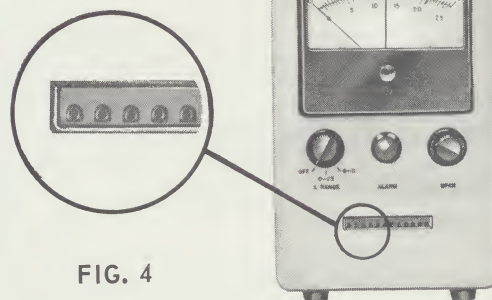
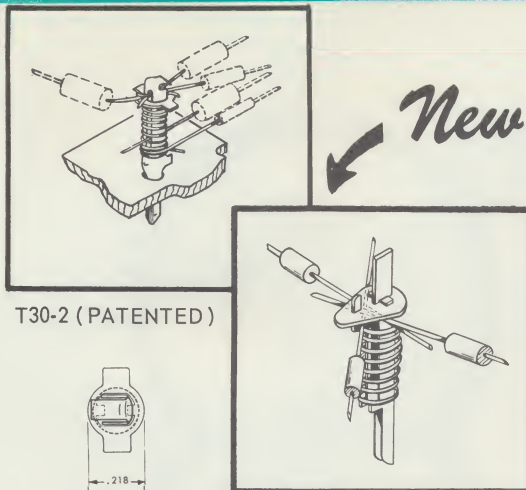


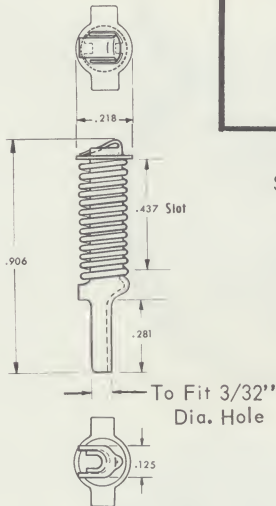
FIG. 4

FAST RELIABLE CIRCUIT SET - UPS WITHOUT SOLDERING



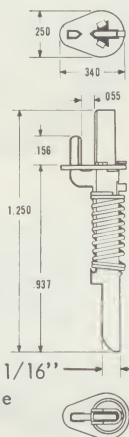
T30-2 (PATENTED)

T32 (Pat. Pending)
SIDE ENTRY U-CLIP

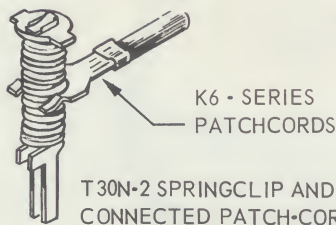


T30N-2 (DETAIL DWG.)

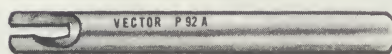
To Fit 3/32" or 1/16"
Dia. Hole



T32, T32-1
DETAIL DWG.



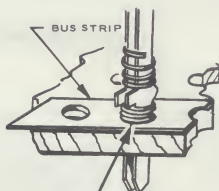
T30N-2 SPRINGCLIP AND
CONNECTED PATCH-CORD



P92A INSERTION TOOL FOR
T30-2 TYPE



P-136 INSERTION
TOOL FOR
T32 TYPE



T64 SPRING
CONTACTS BUS STRIP



RETAINER WASHER HD2.1

Vector SPRINGCLIP Terminals provide reliable means for quickly connecting or disconnecting as many as six component wires without need for soldering, crimping or bending of wires. Expensive components like transistors may be used over and over by merely pulling the leads out of the SPRINGCLIP. No messy, time-consuming unsoldering to salvage components, and no risk of burning up expensive components like sensitive transistors and diodes with excessive solder heat.

TWO TYPES AVAILABLE

The widely used original SPRINGCLIP, No. T30N-2, has a slotted post into which wires may be pushed when the spring is depressed (or wires may be wrapped around the post between coils of the spring). This terminal requires a 3/32" diameter hole. The new T32 series SIDE ENTRY U-CLIP differs in that a slotted plunger is used which, when depressed, opens the slot so that wires may be laid in without threading thru. The new type is somewhat more expensive than the original Springclip since it has one extra part increasing fabrication cost. The T32A and T32 U-Clips fit 3/32" diameter holes (Vectorbord pattern AA). The T32A-1 and T32-1 fit 1/16" diameter holes of Vectorbords "F", "G" and "H".

Wires may enter the T32A U-Clip from various directions since the plunger slot with bevelled edges overhangs the periphery of the post. In this way wires perpendicular to each other may enter the slot and by criss-crossing provide optimum contact pressure. The T32A should generally be mounted with the slot axis at 45° to the most used direction of wire entry so that leads go thru diagonally as shown in the figure.

ECONOMICAL - MAY BE USED OVER AND OVER

SPRINGCLIPS cost little initially and may be used over and over without limit. They are ready to use immediately upon being pushed into holes with the fingers or insertion tools P92A or P136. Staking is not necessary since the terminal holds snugly by means of the springy action of the formed U shape end. However, if staking is required, it can be accomplished by flaring the end underneath the insulating board. Another method is to slip a retainer washer, Catalog Number HD2.1 over the post end of the terminal against the underside of the insulating board. Experimenter patch cords are available having U shaped tips which plug into the coils of the Springclips as shown in the figure. (See Page 5 of Section IX.) Bus strips may be used to connect SPRINGCLIPS in multiple (see Section IX, Page 4). A small spring, T64, is an available accessory to insure connection between the bus strip and the SPRINGCLIP. It slips over the leg of the terminal before pushing it into the bus strip and the board hole. (See Fig.)

SPECIFICATIONS

PART	MATERIAL	FINISH
TERM. POST	BRASS, HALF HARD	SILVER PLATED OR NICKEL
PLUNGER	BRASS, HALF HARD	SILVER PLATED OR NICKEL
WASHER	BRASS, HALF HARD	SILVER PLATED OR NICKEL
SPRING	STEEL MUSIC WIRE	SILVER PLATED OR NICKEL
CONTACT RESISTANCE AS LOW AS .002 OHMS BETWEEN LEADS AND SILVER PLATED SPRINGCLIP, AND .0016 OHMS FOR NICKEL PLATED SPRINGCLIP.		

ORDERING INFORMATION

CAT. NO.	DESCRIPTION	PACKAGE QTY.
T30-2	SPRINGCLIP TERMINAL SIL. PLTD.	PKG. 10, 100, 1000
T30N-2	SPRINGCLIP TERMINAL NICKEL PLTD.	PKG. 10, 100, 1000
T32	SIDE ENTRY U-CLIP SIL. PLTD. FOR BOARD 3/32" DIA. HOLE	PKG. X:10, C:100, M:1000
T32A	SIDE ENTRY U-CLIP NICKEL OR TIN PLTD. FOR BOARD 3/32" DIA. HOLE	PKG. 10, 100, 1000
T32-1	SIDE ENTRY U-CLIP SIL. PLTD. } FOR BOARD	PKG. 10, 100, 1000
T32A-1	SIDE ENTRY U-CLIP NICKEL OR TIN PLTD. } 1/16" DIA. HOLE	PKG. 10, 100, 1000
P92A	INSERTION TOOL FOR T30 SERIES TERMINAL ONLY.	PKG. 1
P136	INSERTION TOOL FOR T32 SERIES TERMINAL ONLY.	PKG. 1
HD2.1	RETAINER CLIP	PKG. 50
T64	SPRING FOR USE WITH BUS STRIP	PKG. 50
PATCH-CORDS SEE SECTION IX PAGE 5.		

PUSH-IN TERMINALS

Vector T9.4 Series Push-In Terminals may be quickly pushed into insulated boards having 0.093" diameter holes, using the P122 Insertion Tool or the P21-6 long nose pliers. The Push-In holds snugly because of the springy action of the formed U shaped end.

The T9.4 Terminal has serrations on the main slot, while the T9.4A does not. (See Figs. 1 & 2). The T9.4 holds wires of .032" to .040" diameter firmly in the serrated slots without soldering, providing only one wire at a time is placed there. Other wires may be placed in the side slot or soldered to the leg. Experimenters who solder may prefer the T9.4A because the leads may be more easily slipped out when unsoldering the connections. At right angle to the main slot is a side slot which may be used to grip other small wires. Riser wires .040" diameter coming up through the terminal leg do not interfere with cross wires in the main slot. Round type AMP taper pins also fit snugly into the hole.

The T9.6 Push-In Terminal is a slightly longer terminal than the T9.4 (See Fig. 4), made of beryllium copper for greater strength and springiness.

TANDEM TERMINALS

Tandem T9.6 terminals are joined together across the top and are used for common junctions (See Fig. 6). Tandems of 2, 3 or 4 are available in stock, or any number of tandems to order.

STAKING

Staking, if desired, may be accomplished as follows: 1. Round nose pliers P21-6 pressed into the U shaped end will flare the sides and lock the terminal in position. 2. Insert the cutting edge of diagonal cutters across the end and simultaneously cut off and flare the sides.

SPECIFICATIONS

MATERIAL:

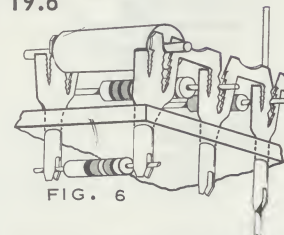
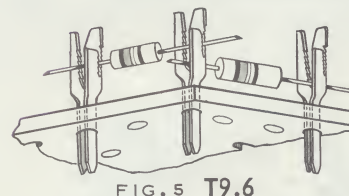
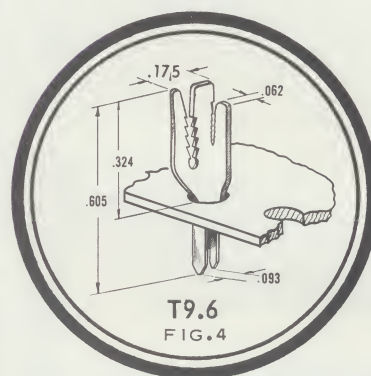
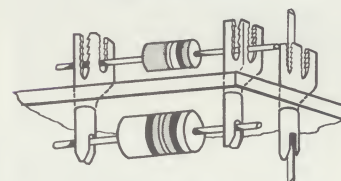
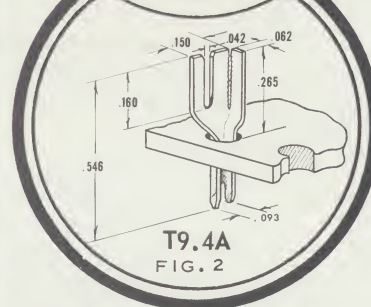
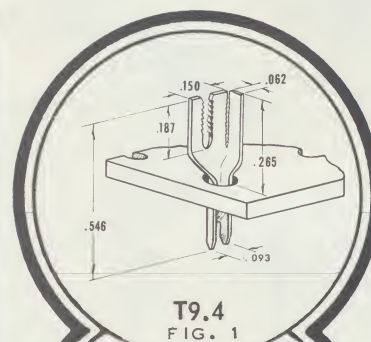
T9.4 SERIES-.016" HALF HARD BRASS,
TIN PLATED.

T9.6 SERIES-.016" THICK BERYLLIUM COPPER
TIN PLATED.

MOUNTING HOLES .093" DIA.±.002". TANDEM TERM. SPACING .265"

ORDERING INFORMATION

T9.4	PUSH-IN ZIP TERMINAL WITH SERRATED MAIN SLOT
T9.4A	PUSH-IN ZIP TERMINAL WITH SMOOTH MAIN SLOT
T9.6	PUSH-IN ZIP TERMINAL, SERRATED
T9.62	TANDEM PUSH-IN TERMINALS, 2 UNITS
T9.63	TANDEM PUSH-IN TERMINALS, 3 UNITS
T9.64	TANDEM PUSH-IN TERMINALS, 4 UNITS
P122	INSERTION TOOL FOR T9.4, T9.4A AND T9.6
P21-6	STAKING PLIERS



PATENTED

EYELETS FOR CIRCUIT BOARDS

Rolled Flange and Funnel Flange eyelets are useful for a variety of circuit connection applications, especially in conjunction with Vec-torbord,* the pre-punched terminal board shown in Sec. II, Pgs. 1-4.

ROLLED FLANGE EYELETS

The T15 series of eyelets is used with .062" diameter holes; the T7 series with .093" diameter holes.

SPECIFICATIONS: Eyelets are brass with a tin finish and can be supplied with other finishes or without finish to special order.

CAT. NO.	DIA. 'A'	DIA. 'B'	LGTH. 'C'	METAL THKNS.	NOM. ID	DRILL SIZE	BOARD THKNS.
T15.22	.059	.105	.062	.007	.042	1/16	—
T15.23	.059	.105	.093	.007	.042	1/16	1/16
T15.24	.059	.105	.125	.007	.042	1/16	3/32
T15.26	.059	.105	.187	.007	.042	1/16	—
T15.27	.059	.105	.219	.007	.042	1/16	—
T7.33	.089	.150	.093	.009	.068	3/32	1/16
T7.34	.089	.150	.125	.009	.068	3/32	3/32
T7.35	.089	.150	.156	.009	.068	3/32	1/8
T7.36	.089	.150	.187	.009	.068	3/32	—
T7.37	.089	.150	.219	.009	.068	3/32	—
T7.39	.089	.150	.281	.009	.068	3/32	—

Standard Package: 1000

FUNNEL FLANGE EYELETS

These eyelets provide a superior electrical connection for printed circuit boards, with an excellent affinity for solder. The eyelet is designed for good solder fillets, faster insertion of leads, and elimination of flux trapping so that solder flows evenly around the setting.

SPECIFICATIONS: Material is brass or copper as listed, with a tin finish. (See table). Terminals supplied without finish or with other finishes to special order. Standard package: 1000

CAT. NO.	DIA. 'A'	DIA. 'B'	LGTH. 'C'	METAL THKNS.	NOM. ID	DRILL SIZE	BOARD THKNS.	MAT.
TF15.23	.059	.095	.088	.006	.047	.062	1/16	BRASS
TF15.24	.059	.095	.125	.006	.047	.062	3/32	BRASS
TF2.23	.047	.080	.093	.006	.035	.052	1/16	COPPER

FLAT FLANGE EYELET - Eyelets for .025" and .040" dia. pins. Material: Copper, Tin plated.

CAT. NO.	DIA. "A"	DIA. "B"	LGTH. "C"	METAL THKNS.	NOM. I.D.	DRILL SIZE	BOARD THKNS.	MAT.
T102	.052	.080	.105	.006	.040	.059	1/16	COPPER
T103	.036	.071	.062	.006	.025	.041	1/32	COPPER

STAKING TOOLS FOR EYELETS

Hand staking pliers stocked for installing listed rolled flange eyelets.

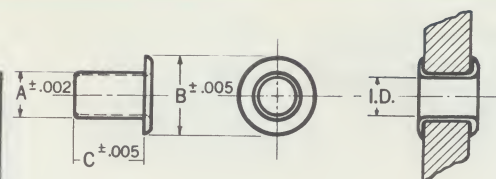
CAT. NO.	DESCRIPTION
P-96	Pliers for Rolled Flange Eyelets, 12" L. with 3-1/8" Throat Depth
P-96A	Anvil & Set Die used with pliers, (.059" eyelet barrel diameter)
P-96B	Anvil & Set used with pliers, (.089" eyelet barrel diameter)
P-125	Pliers w/anvil and die set for .059" dia. eyelets - 7/8" throat
P-126	Pliers w/anvil and die set for .089" dia. eyelets - 7/8" throat

STAKING TOOLS FOR PRESSES

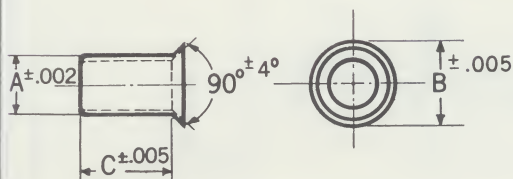
Machine or press staking tools consisting of the Anvil and Spindle and the Set Die are stocked for both the rolled flange and the funnel flange eyelets. The tool shank diameter is 1/2" and may be used in a drill press, or any device which provides the necessary action.

CAT. NO.	DESCRIPTION
P-109	Set for T15 series, rolled flange eyelet, (.059" eyelet barrel dia.)
P-110	Set for T7 series, rolled flange eyelet, (.089" eyelet barrel dia.)
P-111	Set for TF15 series, funnel flange eyelet, (.059" eyelet barrel dia.)
P-112	Set for TF2 series, funnel flange eyelet, (.047" eyelet barrel dia.)

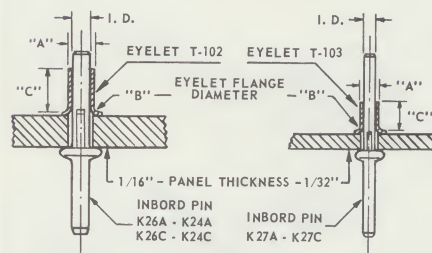
* Trademark



ROLLED FLANGE EYELETS



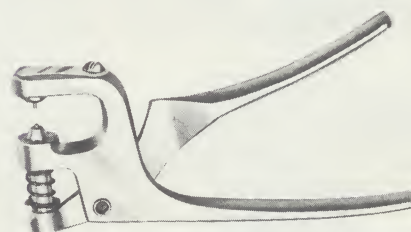
FUNNEL FLANGE EYELETS



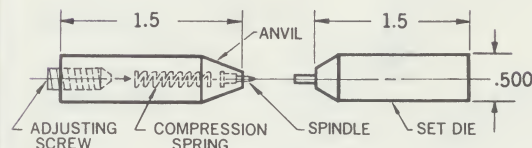
FLAT FLANGE EYELETS
FOR EDGE-PIN ATTACHMENT



HAND STAKING TOOL P-96
PLUS ANVIL AND SET DIE



HAND STAKING TOOL P-125
LOW COST TYPE



MACHINE STAKING TOOL

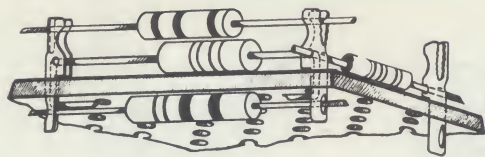


FIG. 1

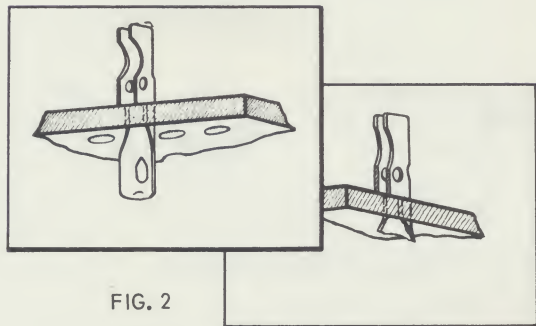


FIG. 2

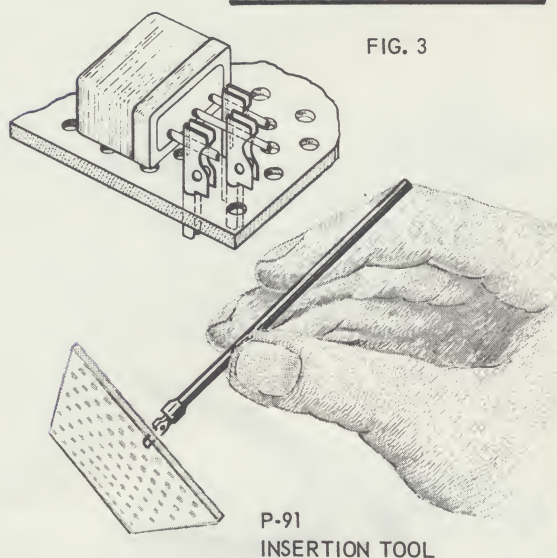
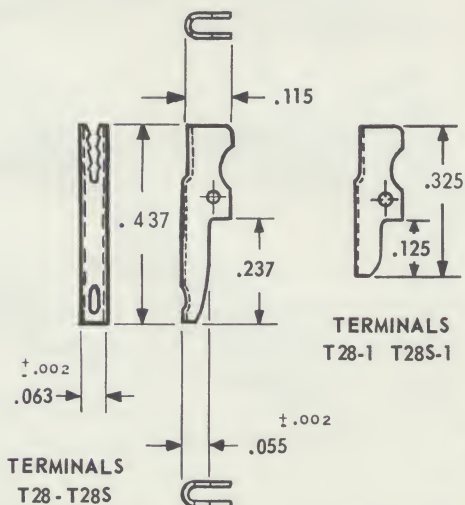


FIG. 3



P91A
INSERTION
TOOL



TERMINALS TO FIT .062 DIA. HOLES

The T28 Push-in Terminal is a very small contact designed for miniature circuitry where the well known T9.4 Push-in might be too large. It is easily inserted into 1/16" round holes and needs no staking operation. Ideal for the experimenter, it is also well suited for use in printed circuits and other production applications.

DESIGNED FOR COMPACT ASSEMBLIES

1. Low Cost: The T28 Push-in is stamped from beryllium copper sheet, silver or tin plated. This provides strength and springy action. It is priced below turned type terminals and may be re-used, if desired, by pulling it out of the board.

2. Compactly Designed - Yet Holds Up To Six Leads: The T28 looks neat; yet, using upper and lower portions, as many as six leads may be connected to it in the three possible directions. See Fig. 1. Notice the serrations in the main slot which grip small component leads, including transistor leads.

3. Optional Hand Staking Possible: Although no staking is required, the terminal may be staked if desired. Fig. 2 illustrates one staking method. Here the small end of the terminal has been flared using "flats" or needle nose pliers. This prevents it from pulling out. (see Fig. 3) After flaring, the small end of the terminal may be cut with a pair of cutting pliers.

Fig. 3 illustrates how the tab can be simultaneously flared adjacent to the board and cut off by use of the usual diagonal cutting pliers.

4. Easily Inserted: Terminals can be inserted by use of a 1/2" or 1 w. resistor with the wires cut about 9/16" long on one side and entirely off on the other side. The short wire is inserted in the terminal and on through the hole. Special hand tools Vector P91A or P91 are used to insert T28 series terminals. Vectorbord Type B, E, F, G or H is recommended for use with T28 terminals. The Vector P91 insertion tool has a 1/4" metal shaft type handle which permits to the tool to be inserted in a drill press or arbor press for a more convenient operation. The Vector P91A insertion tool has a wooden handle.

SPECIFICATIONS

CAT. NO.	DESCRIPTION	MATERIAL	PLATING	STD. PKG.
T28	PUSH-IN TERMINAL	BERYLLIUM COPPER	TIN	BAGS OF 100
T28-1				OR 1000
T28S	PUSH-IN TERMINAL	BERYLLIUM COPPER	SILVER PLATED	BAGS OF 100
T28S-1				OR 1000
P91A (PREFER- RED) OR P91	INSERTION TOOL FOR T28 & T28S	STEEL & WOOD STEEL	CADMIUM PLATED	1 EACH 1 EACH

VECTOR ELECTRONIC CO., INC.

1100 Flower St. Glendale, Calif. 91201 Area - 213 Phone 245-8971

TWX 910-497-2283

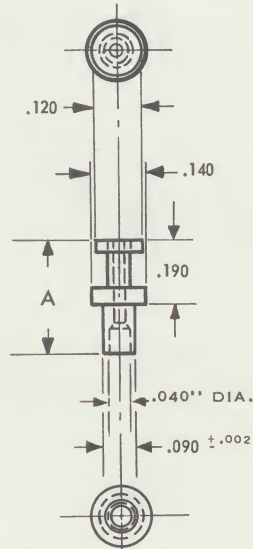
TERMINALS TO FIT .093 DIA. HOLES

TERMINALS

VECTOR TERMINALS ARE LISTED FOR BOTH .093" DIAMETER OR .062" DIAMETERS HOLES. MOST TERMINALS ARE OFFERED IN TWO SIZES FOR USE WITH 1/16" OR 3/32" BOARD THICKNESS.

STAKING TOOLS

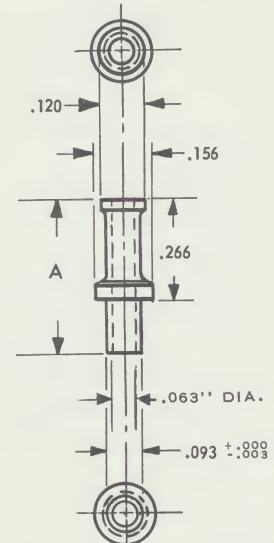
FOR PROPER STAKING, APPROPRIATE STAKING TOOLS ARE LISTED WITH RESPECTIVE TERMINALS. TOOLS FIT ANY PRESS ACCOMODATING 1/4" SHANK. TOOLS MAY BE ORDERED FROM VECTOR ELECTRONIC CO., INC.



BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T5.0	.299	1/16"
T5.1	.330	3/32"

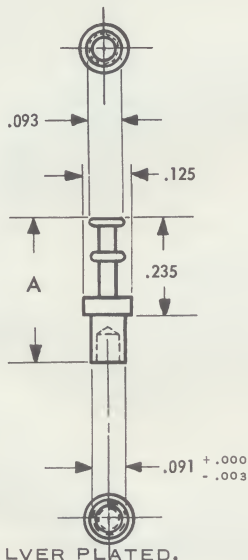
ORDER P119 STAKING TOOL.



BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T10	.371	1/16"
T10.1	.401	3/32"

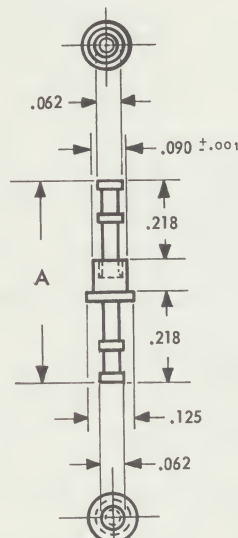
ORDER P121 STAKING TOOL.



BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T11	.340	1/16"
T11.1	.370	3/32"

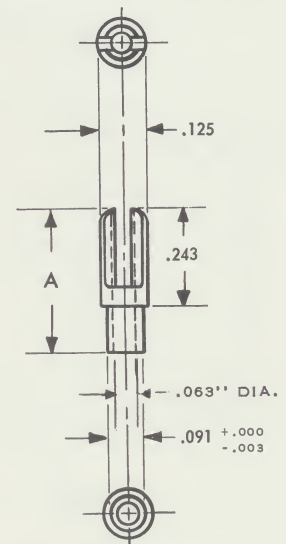
ORDER P100 STAKING TOOL.



BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T13	.520	1/16"
T13.1	.551	3/32"

ORDER P101 STAKING TOOL.

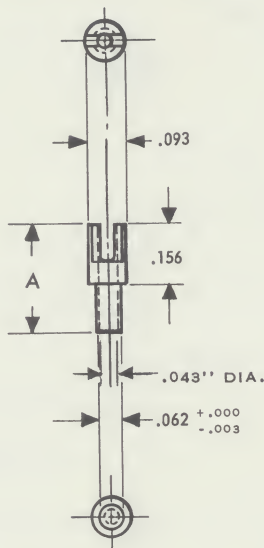


BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T14	.348	1/16"
T14.1	.378	3/32"

ORDER P102 STAKING TOOL.

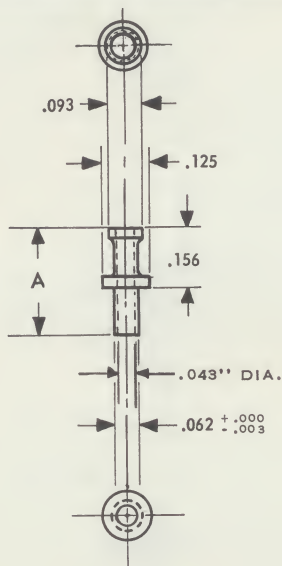
TERMINALS TO FIT .062 DIA. HOLES



BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T18	.240	1/16"
T18.1	.271	3/32"

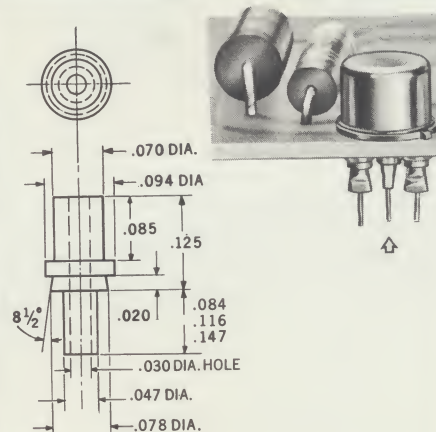
ORDER P103 STAKING TOOL.



BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T19	.240	1/16"
T19.1	.271	3/32"

ORDER P104 STAKING TOOL.

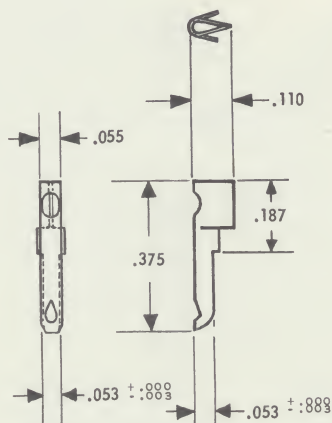


TRANSCIMP TERMINAL FOR TRANSISTOR AND DIODE LEADS ELIMINATES HEAT DAMAGE TO LEADS. RELIABLE CRIMPED CONNECTION.

BRASS, NICKEL PLATE GOLD FLASH.

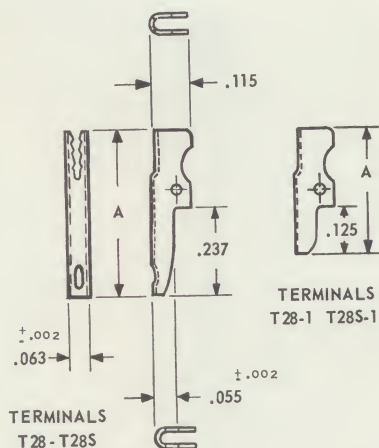
CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T40-2	.209	1/16"
T40-3	.241	3/32"

WRITE FACTORY FOR STAKING AND CRIMPING TOOL INFORMATION.



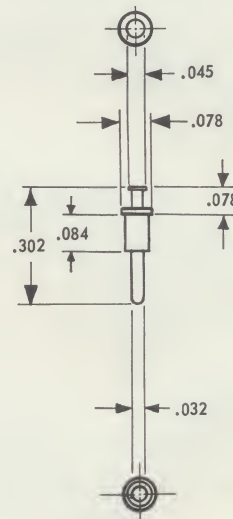
BERYL. COPPER, SILVER PLTD.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T27	.375	ANY



CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T28	.437	ANY
T28-1	.325	1/16 - 3/32

BERYL. COPPER, BRIGHT TIN PLTD.
T28S .437 ANY
T28S-1 .325 1/16 - 3/32
BERYL. COPPER, SILVER PLTD.
* ORDER P91 HAND INSERTION TOOL.
See Sect. VII, Page 3 for complete description.

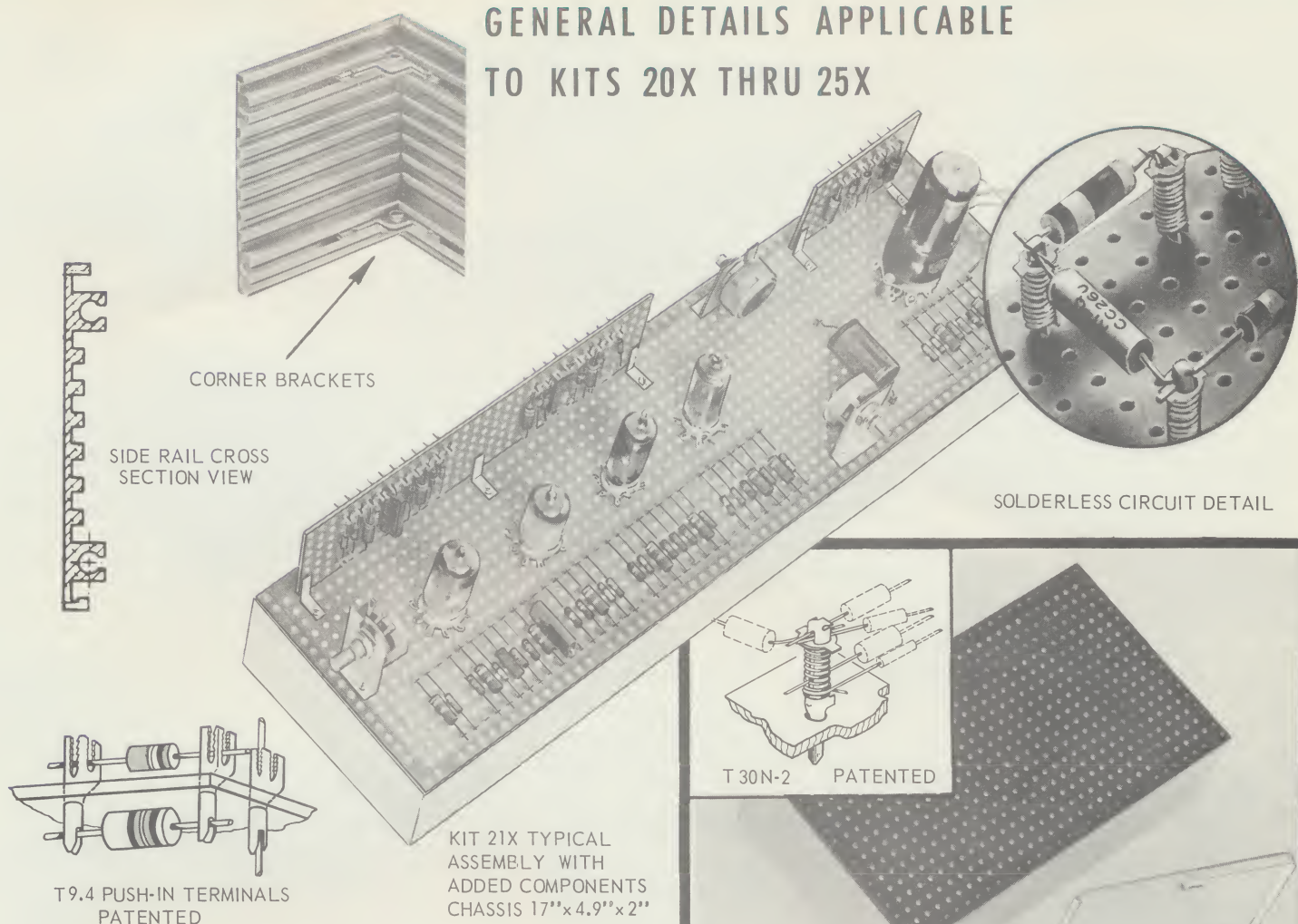


BRASS, SILVER PLATED.

CATALOG NUMBER	LENGTH (A)	for BOARD THICK.
T29	.302	1/16"

ORDER P113 STAKING TOOL.

GENERAL DETAILS APPLICABLE TO KITS 20X THRU 25X

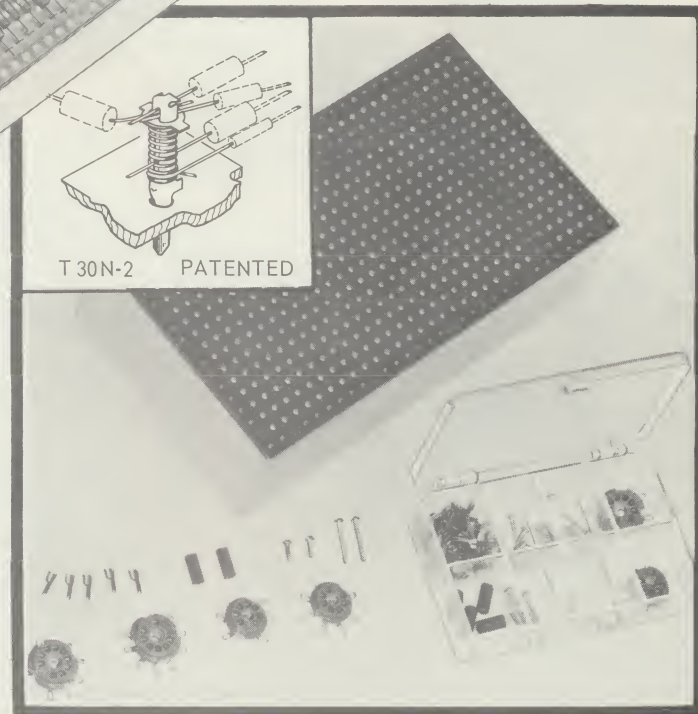


SAVE SET-UP TIME ON EXPERIMENTAL CIRCUITRY

The Vector EXPERIMENTER'S CHASSIS provides quick set up of electronic circuitry with simple hand tools. Intended mainly for mock-ups, the structure is also suitable for more permanent use and may be mounted on racks or in cabinets with added adapter plates. The construction is highly flexible and parts can be readily cut to make other sizes than those supplied. Kit-20X provides a low cost " sampler " with wiring decks 4-3/4"x8-1/2"x3/32" and a small assortment of accessories. Kit-21X supplies a larger deck 4-3/4"x17"x3/32" plus a large number and variety of accessories for more varied assemblies. The main wiring deck consists of a sheet of phenolic 3/32" thick having a uniform punched pattern of holes .093" in diameter and spaced 0.265" on centers. If other hole-pattern boards are preferred, such as "G" pattern with 1/16" holes on alternate 0.1" centers, these may be obtained as accessories and will slide into the chassis grooves.

Unique extruded aluminum side rails with grooves for holding circuit boards or covers are provided for the chassis. Rails quickly slide together at the corners as described in "Expandable Case" catalog pages, 1-8, Sec. V. Rails are 2" wide with 0.1" grooves. Vectorbords mount in any grooves or on top. Covers are extra.

See further details next page.



KIT 20X WITH FURNISHED ACCESSORIES
CHASSIS 8-1/2"x4.9"x2"

CONTENTS OF 20X KIT: Chassis & Vectorbord described plus 20 Springclip & 75 T9.4 Terminals; 3 Min. 7 Pin, 2 Octal & 3 Noval 9 Pin Tube Skts; 2 Pot Brackets, Plastic Parts Box with 30 asstd. screws, nuts, 12 spacers, 2 bus strips; Installing. Tool.

CONTENTS OF 21X KIT: Larger Chassis as described plus 50 Springclip & 100 T9.4 Terminals; Same Sockets as above plus 6 Transistor Sockets; 4 Pot Brackets; 14 Misc. Brkts; 2 Spools Bare & Insulated Hook-up Wire; 3 Bus Strips; Plastic Parts Box with 46 asstd. Screws, 28 nuts; 22 Spacers; 2 Installing Tools, layout paper. See more complete list on page 5.

KITS 22X & 22XA FOR TRANSISTOR CIRCUITRY

KIT 22X has a 4.8"x8.5" Vectorbord ("A" Pattern) mounted on 2" aluminum rails of "Expandable Case" type.

KIT 22XA similar but with 8.5"x17" Vectorbord 6 universal type transistor Skts. With saddles fit pins "in-line" or "JEDEC". Mount on spacers above board. Also 2 power transistor sockets.

CONTENTS OF KIT 22X: Chassis, Vectorbord & sockets as above plus 75 T9.4 Push-in & 20 T30N-2 Springclip Terminals; 3 Bus strips 8" long; 6 Patch Cords, Installing Tool for T9.4; 2 Spools Bare and Insulated Hook-Up wire; Layout Paper; 4 Pot Brackets and Adapter Washers; 8 asst'd. brackets; 2 Plastic Parts Boxes with 38 asst'd. Screws; 34 Nuts; 16 Spacers; 4 Thumb Pins.

CONTENTS OF KIT 22XA: Larger chassis, Vectorbord and Sockets described above plus 100 T9.4 and 100 T30N-2 Springclip and 18 T32A-U-Clip Terminals; 4 T9.62 and 6 T31A Terminals; 3 Bus Strip 16" long; 14 Patch Cords, 9" and 15" long, 2 Installing Tools for T9.4 and T30N-2; 2 Spools, Bare and Insulated Hook-Up Wire; Layout Paper; 4 Pot Brackets; 8 asst'd. brkts; 2 Plastic Parts Boxes with: 54 asst'd. Screws; 42 Nuts; 20 Spacers; 10 Thumb Pins; "Numletr" Transfer sheet (no's. and letters).

PUSH-IN TERMINALS of both solderless and solderable type are supplied. The T-30N-2 SPRINGCLIP (see Fig.) holds up to six component wires tightly without soldering. The wires need only be pushed into a slot at the end of or thru the coils of a spring with low contact resistance. Leads are not damaged. Parts may be used over and over again. A simple tool is provided to push the terminal in the hole. No staking is required tho this may be done if desired.

Terminals have side wings to facilitate pushing down with fingers or by the P92A tool.

T9.4 PUSH-IN TERMINAL GRIPS AND SOLDERS TO WIRES

The T9.4 Push-in Terminal has partially tubular end which springs snugly into board holes. The top of the terminal has a tapered slot with serrated edges. When a wire of between .030" and .045" is pushed in, the edges will be forced apart to grip the wire. The slot is offset from the axis so that wire coming up thru the hole will not interfere with a cross-wire. Leads are usually soldered.

Tandem terminals provide strips across two or more of the above for multiples.

TUBE OR TRANSISTOR SOCKETS MOUNT ABOVE-BOARD

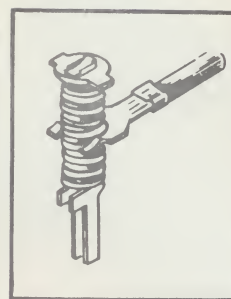
Tube sockets are of the solder lug type. Solderless types may be ordered separately (see following pages). Transistor sockets have mounting saddles, screws and spacers. Tube sockets are mounted as follows: #2/56 round head screws are placed in the center hole of the 7 or 9 pin miniature sockets and screwed into desired hole in the board. Or conventional saddle type sockets may be mounted by placing the longer spacers under the saddle holes and screwing down, using 3/4" long screws. Octal sockets are screwed down with No. 4 screws thru the saddle holes with the longer spacers underneath.

Vector saddle-mounted transistor sockets are screwed on in the same manner as the octals. Various brackets are supplied to mount pots, switches, terminal strips, etc. Bus strips which match holes of board facilitate strapping adjacent terminals or ground lines. Patch cords provide quick connection between Springclips as in figure. Thumb pins mount parts easily in holes.

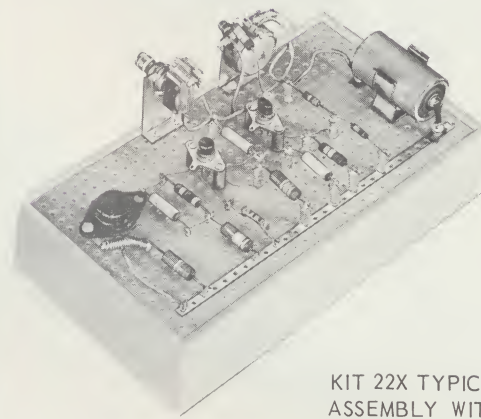
A more detailed list is given on Page 5 entitled "Parts Price List for Experimenter's Kits".

VECTOR ELECTRONIC CO., INC.

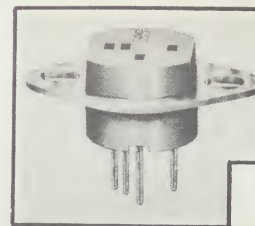
1100 Flower St. Glendale, Calif. 91201 Area-213 Phone 245-8971



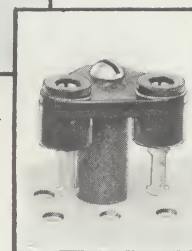
T30N-2 SPRINGCLIP AND
CONNECTED PATCHCORD



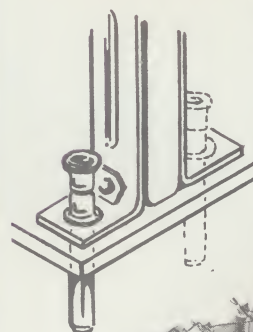
KIT 22X TYPICAL
ASSEMBLY WITH
ADDED COMPONENTS
KIT 22XA IS SIMILAR
BUT SIZE OF 25X



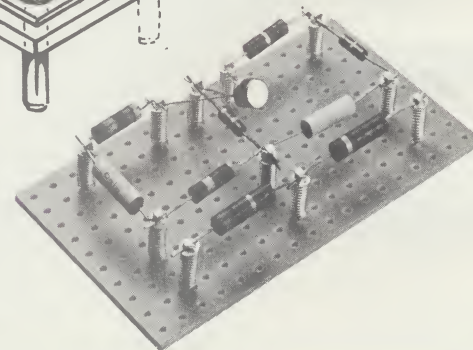
RA4.5
TRANSISTOR SOCKET



POWER TRANSISTOR
SOCKET

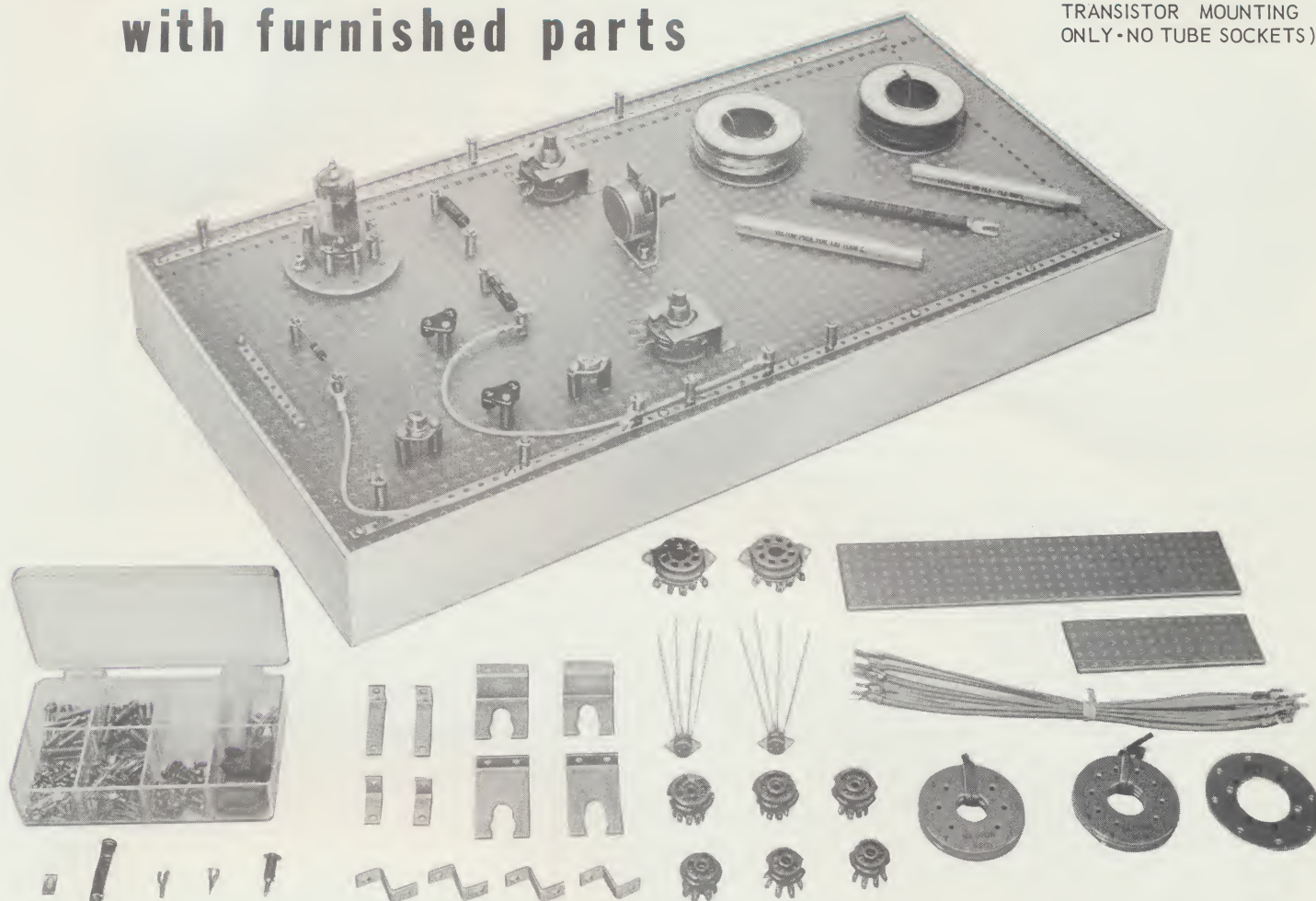


THUMB PIN K7
THUMB PIN HOLDS
DOWN TRIMPOT



25X SOLDERLESS KIT with furnished parts

(22XA KIT SIMILAR BUT FOR
TRANSISTOR MOUNTING
ONLY-NO TUBE SOCKETS)



SAVE CIRCUIT DESIGN TIME

The Vector Solderless Circuit Set-up System is a new and convenient method to set-up and test circuits rapidly without having to solder and unsolder connections.

UNIQUE SOLDERLESS TERMINALS

Quick set up is achieved by use of Vector Springclip terminals, T30N-2 and T32A (see Page 1 of Section VII). SPRINGCLIPS hold as many as six component leads without soldering or crimping wires. This allows reuse and prevents heat damage to expensive components. Contact resistance is less than .01 ohms. A few of the new T32A Side Entry U-Clip OPEN SLOT type Solderless SPRINGCLIP terminals are also included in the kit. These permit direct lay-in of wires into the terminal slot without threading thus simplifying hookup.

A variation of the SPRINGCLIP, the T31A LUG-CLIP is supplied which can be slipped onto the lugs of pots and switches to attach wires.

NEW ALUMINUM EXPANDABLE CHASSIS

The Vectorbord 8-1/2" x 17" x 3/32" punched deck with .093" diameter holes on 0.265" centers is supported on the new FRAME-LOC EXPANDABLE ALUMINUM CHASSIS.

2" wide SIDE RAILS plug into each other at corners to provide a handsome, screwless, exterior. Grooves on the interior surfaces support VECTORBORDS or other panels either at top, bottom or inbetween --no need to screw them on. (See more complete description of chassis in Section V, Bulletin 86). Aluminum covers, rubber feet, additional rails, and connectors for expansion of the chassis are separately available as accessories. The user may slide the VECTORBORD in the top groove to work on it. Later, he can quickly shift it to an inside position and slip metal covers on to obtain a handsomely enclosed case adequate for most finished applications.

TRANSISTOR AND TUBE SOCKETS

Universal type Transistor sockets (4 supplied) have pig-tail leads which connect easily to SPRINGCLIPS. These mount quickly above the board on spacers secured through saddle by screws.

VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area -213 Phone 245-8971

TRANSISTOR AND TUBE SOCKETS (Cont'd. from prev. page)

Two Power Transistor Sockets are also supplied. Three Miniature 7-pin, 3 Noval 9-pin and 2 Octal sockets are also supplied with the 25X Kit. With these, mounting wafers are also furnished which enables the user to assemble solderless type sockets similar to those illustrated and described on page 5 of Section X.

The Kit provides similar parts to those supplied with kit 21X described on another page (please refer to this) but is larger and provides more solderless terminals and also solderless socket parts which are not furnished with the other kits. See Parts List, page 5, Section IX for detailed list of contents.

NOTE Kit No. 22XA described on a previous page provides same chassis size as above and many of the same parts but has no tube sockets. See List page 5.

OTHER BREAD-BOARD ITEMS: WOOD CHASSIS FRAMES

Vector wood frames provide inexpensive supports for various size Vectorboards. These are available completely assembled with Vectorboard Decks or the individual parts may be purchased. Besides their low cost, wood frames make possible less expensive breadboarding where the aluminum side rail method might be too costly. Knocked down kits contain wood frame members and fasteners, easily assembled by user.

Knocked down kits contain wood frame members and fasteners, easily assembled by user.

Catalog Number	Deck Size	Deck Material	Hole Dia.	Hole Pattern	"A"	"B"
X32AA18	4-13/16"x8-1/2"x3/32"	XXXP Phen.	.093"	.265" ctrs.	5-3/16"	8-29/32"
X64AA18	4-13/16"x17"x3/32"		.093"	.265" ctrs.	5-3/16"	17-3/8"
X64AA32	8-1/2"x17"x3/32"		.093"	.265" ctrs.	8-29/32"	17-3/8"
X85G24EP	4-13/16"x17"x1/16"	Epoxy Paper	.062"	Alt. .1" ctrs	5-3/16"	17-3/8"
X85G42EP	8-1/2"x17"x1/16"		.062"	Alt. .1" ctrs	8-29/32"	17-3/8"
X32AA18-1	4-13/16"x8-1/2"	Not Furnished Wood Frames Only			5-3/16"	8-29/32"
X64AA18-1	4-13/16"x17"				5-3/16"	17-3/8"
X64AA32-1	8-1/2"x17"				8-29/32"	17-3/8"

Section II, Page 1-4 for Vectorboards for knock-down frame.

BUS STRIP

Punched tinned copper strip which mounts to Vectorbord deck with Zip Push-In terminals or self tap screws. Furnished 0.20" wide & .093" holes on .265" ctrs. for "A" pattern or 0.125" wide & .062" holes on 0.2" ctrs. for "F", "G" & "H" patterns.

Cat. No.	Description	Pkg. Qty.
T57	Punched Metal strip 0.20" wide x 16" Lg. Holes P.C. .265"	(X) 10, (C) 100
T58	Punched Metal strip 0.20" wide x 8" Lg. Holes P.C. .265"	(X) 10, (C) 100
T104	Punched Metal strip .125" wide x 17" Lg. Holes P.C. .200"	(X) 10, (C) 100

MOUNTING PEGS FOR BREAD-BOARDS

Drive Pins - Economical legs. Lowest cost Vectorbord support. Roll Pins with plastic feet which slip on after installation to prevent scratches on bench.

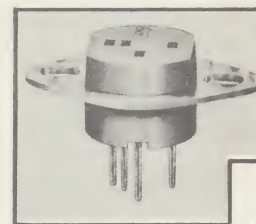
Part No.	Description
1110-49S	Pins-Roll type-slotted steel .063" dia. x .750" Lg. chamfered ends and Plastic sleeve.
1111-51S	Pins-Roll type-slotted steel .094" dia. x .750" Lg. chamfered ends and Plastic sleeve.

PAD CUTTER TOOLS

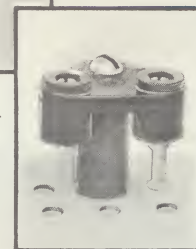
Copper Pad Cutter Tools - Extremely useful for "ground plane" type circuitry using copper clad Vectorbord. Tools cut ring of copper away from hole making possible use of T28 Miniclips or standard turned terminals as isolated terminals. Special design leave anchor pad of copper in center of ring to solder terminals to board if desired. Use in any 1/4" chuck. See also Sect. IX, Pg. 12.

P-116 Cuts 1/4" diam. isolation ring
P-116A Cuts 3/16" diam. isolation ring

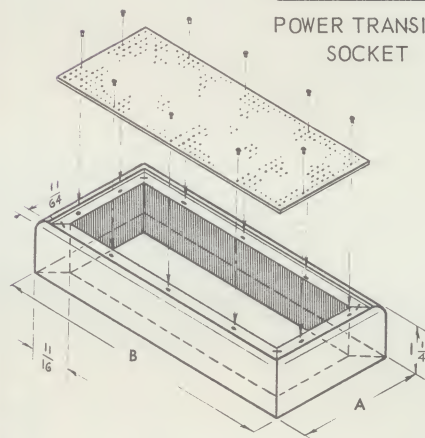
Terminal Insertion Tool P-122 - Holds T9.4 or T9.6 for easy insertion in Vectorbord.



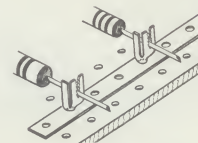
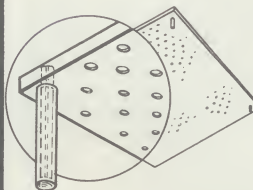
RA4.5
TRANSISTOR SOCKET



POWER TRANSISTOR
SOCKET



WOOD FRAMES



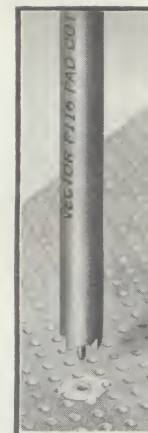
BUS STRIP

MOUNTING PEGS FOR BREAD-BOARDS

P-116 TOOL
MAKES CUT-OUT
.125 I. D. TO .250 O. D.



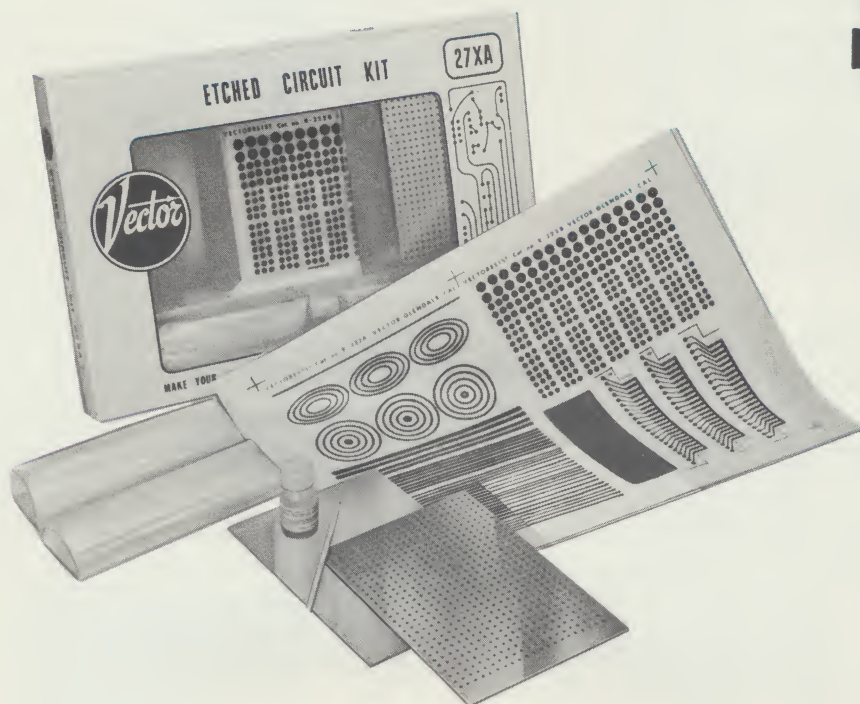
P-116A TOOL
MAKES CUT-OUT
.125 I. D. TO .188 O. D.



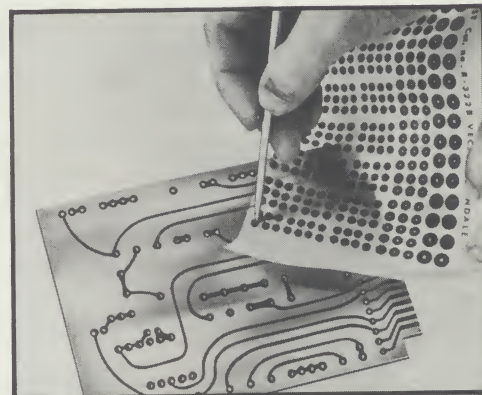
COPPER PAD CUTTER
P116 AND P116A TOOL



P-122
INSERTION
TOOL



- ▶ NO MORE WAITING - - - - LOW COST
- ▶ MAKE ETCHED CIRCUITS AT YOUR DESK
- ▶ USE WHEREVER UNCOMPLICATED PRELIMINARY CIRCUITS ARE REQUIRED.



ABOVE: EASY APPLICATION OF VECTORESIST

ETCHED CIRCUITS IN MINUTES

With a Vector 27XA etched circuit kit one can make etched circuits quickly without fancy art work, negatives, or long waiting. Kit contains everything except hot water! To make your circuit, simply sketch it out on the grid layout paper for best component and circuit arrangement, and trace it with carbon paper on copper clad board. Then position transfer Vector resist sheet over lines and "rub on" the resist where required. See reverse side of this sheet for detailed description. After cleaning, the board is placed in the plastic bag, hot tap water is added and in 45 minutes the circuit is etched. Washing and removal of the resist completes the job.

Also Available: Etched Circuit Kit 27X the predecessor of the 27XA is similar to the No. 27XA but contains plastic strips and circles and resist ink instead of the more convenient "Vectoresist".

CONTENTS OF KIT

Items	Cat. No.	Qty.	Description
Board	3070-1XXXP	1	XXXP Phenolic Vectorbord clad on 1 side with 2 oz. copper. Pre-punched grid of .062" holes on .2" centers
Board	CU65/45-1	1	XXXP Phenolic, unpunched 2 oz. copper clad 1 side
Vectoresist	R-322	1	Vectoresist, sheet 10" x 15", lines, circles, connector tabs with 2 polyethylene bags and Ammonium Persulphate plus etch activator
Etchant	2594		
Clips	2595	12	Clips for closing bags
Grid Paper	R-173F	3	Sheets Grid Layout Paper
		1	Etching Instructions
		1	Vectoresist Instructions
			Misc. scrap Vectorbord

ACCESSORIES

Tape	2592	Card Tape Resist strips for lines (0.1" x 9")
Tape	2593	Card Tape Resist Circles for "Lands" (1/4" dia.)
Resist Ink	3082	1/4" oz. Bottle, with brush

Distributors in all Principal Cities.

VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area-213 Phone 245-8971

VECTORESIST

"RUB-ON" RESIST FOR ETCHED CIRCUITS

VECTORESIST is a unique, easy to use method of making experimental and limited production etched circuits.

Various VECTORESIST sheets are available including sheets with different width lines, curves, circles, standard and miniature transistor pads, numbers and letters, standard spaced plug contacts. Full sheets are 10"x15".

VECTORESIST eliminates the need for etch resist tapes and pens in laying out resist patterns. VECTORESIST need only be placed coated side down on copper-clad board and figure or line rubbed with a soft pencil or ball point pen. As VECTORESIST sheet is rolled-back, image is transferred to board. After pattern layout is completed, board is ready for etching in either Ferric Chloride or Ammonium Persulphate solution.

PATTERN LAYOUT VECTORESIST SHEET R322

No. of Lines or figures	Figure	Size
5	6" lines	.031" width
17	6" lines	.062" width
7	6" lines	.093" width
4	6" lines	.156" width
253	pads	0.156" dia.
69	pads	0.187" dia.
32	pads	0.281" dia.
1	solid block	1.625" x 5.062"
3	standard spaced plug contact areas which will match standard P.C. receptacles 2 are 22 contact and 1 is 21 contact	0.156" ctr. spacing .093" line width .046" between lines

Misc. curves for joining with straight lines

To Order Vectoresist Specify Catalog No. R-322 Price: \$2.00 per sheet
(See succeeding pages for other patterns).

VECTOR "NUMLETR" TRANSFER SHEET FOR LETTERS & NOS.

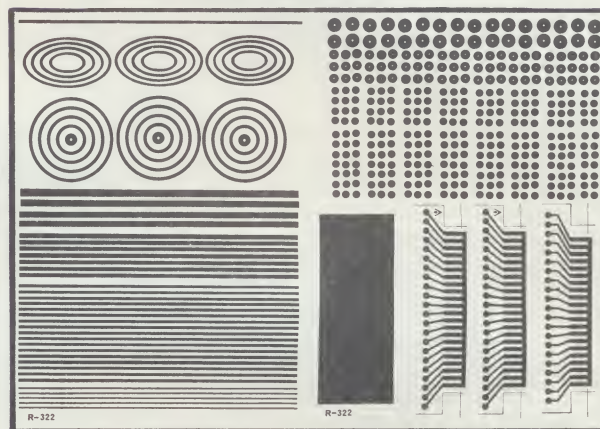
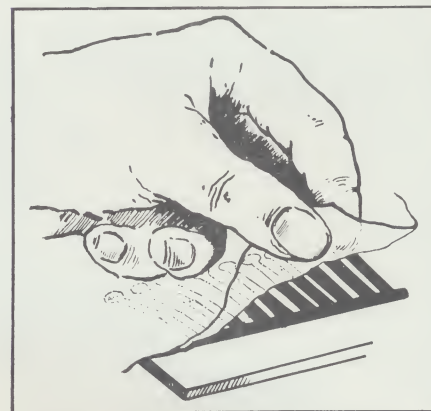
Numletr Transfer Sheets are 10-inch by 15-inch semi-transparent film sheets on which 3/32" high numbers and letters are printed at a spacing of .265", horizontally for numbers and vertically for letters. Letters and numbers may be readily transferred to "A" pattern Vectorbord for hole identification merely by rubbing front side of sheet with ball pen, soft pencil or other similar device. They may be applied to other grid patterns but in this case the sheet will have to be moved after each character is placed.

Characters and numbers are neat appearing and lend professional appearance to any item on which alpha-numeric marking is desirable. Words may also be formed by selecting the individual characters needed and moving the sheet as required. Numletrs may be applied to any smooth, clean, metal or plastic or paper surface and adhere tightly once applied. Should mistakes occur, letters may be easily scraped off with sharp object such as knife or razor blade and a new character re-applied on same position.

NUMLETR sheets are available with acid resistant letters for use as etch resist but equally useful for display letters only.

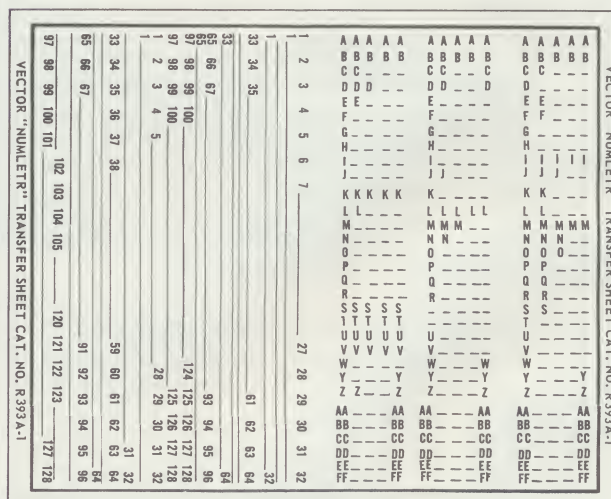
Cat. No.	Type	Price/Sheet
R393-A-1	Display and Etch Use Black Ink	\$2.00
R393-A-2	Display and Etch Use White Ink	\$2.00

To order Numletr sheets, specify R393-A-1 or R393-A-2.
Price is \$2.00 per sheet.



VECTORESIST SHEET R322

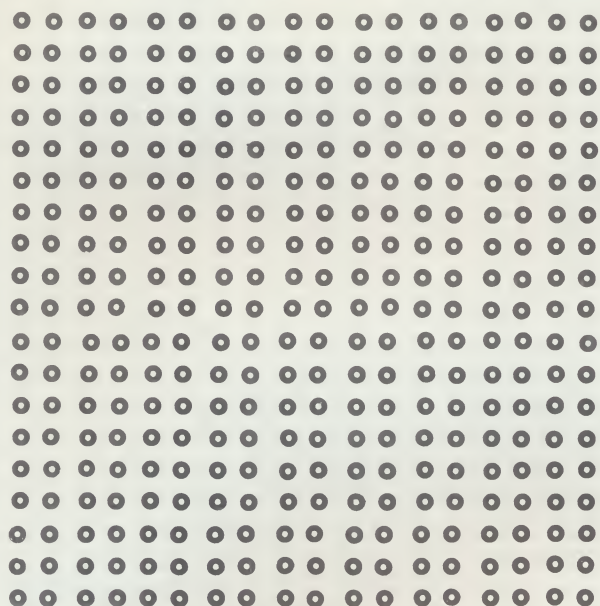
(Actual size 10"x15" - reduced above for pictorial representation)



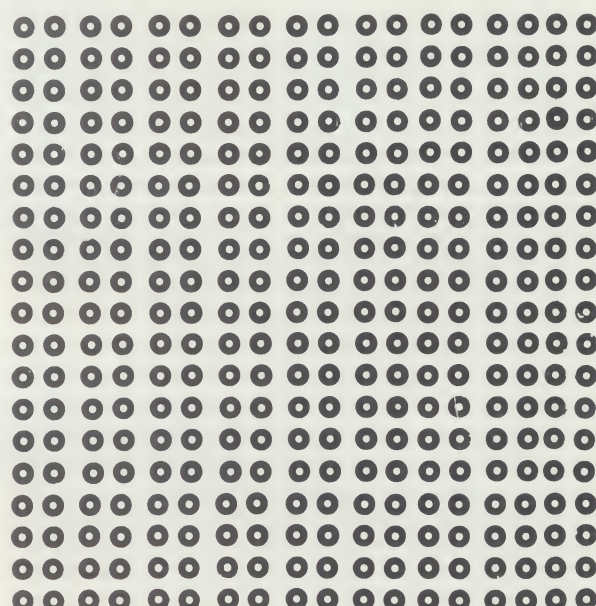
VECTOR "NUMLETR" SHEET R393-A-1 & R393-A-2

(Actual size 10"x15")

VECTORESIST Cat. no. R-406-1

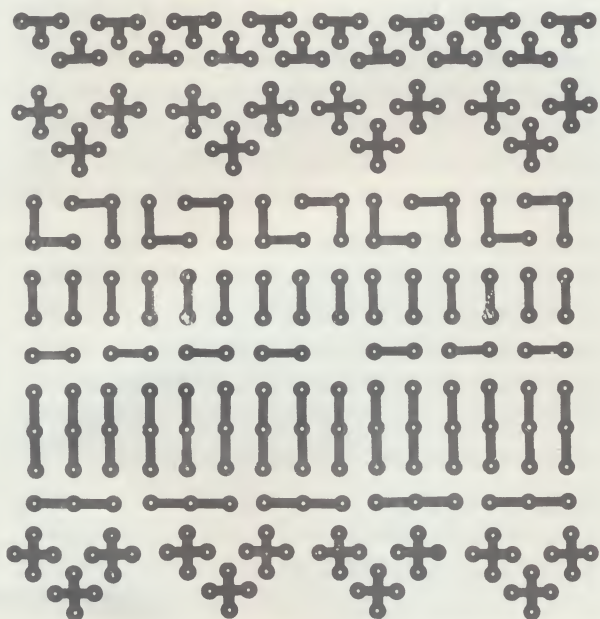


VECTORESIST Cat. no. R-406-2



PATTERNS SHOWN ARE ACTUAL SIZE AND APPROXIMATELY HALF OF TOTAL AREA.

VECTORESIST Cat. no. R-406-3



VECTORESIST Cat. no. R-406-4



ORDERING INFORMATION

Description	Sheet Size	Cat. No.
Vectoresist Rub-On Resist Sheet	10" x 15"	R406
Quadrant 1	5" x 7½"	R406-1
Quadrant 2	5" x 7½"	R406-2
Quadrant 3	5" x 7½"	R406-3
Quadrant 4	5" x 7½"	R406-4

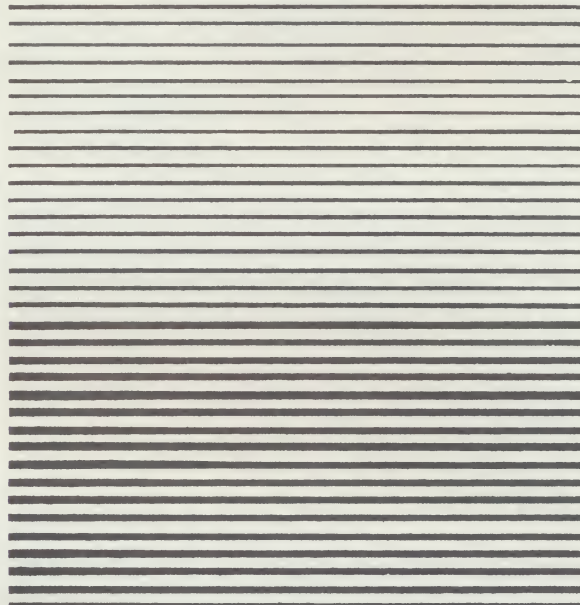
VECTOR ELECTRONIC CO., INC.

1100 Flower St. Glendale 1, Calif. Area - 213 Phone 245-8971

VECTORESIST Cat. no. R-405-1

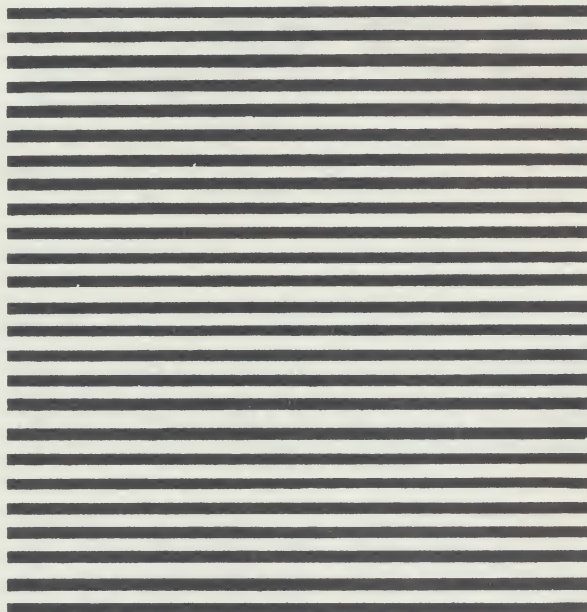


VECTORESIST Cat. no. R-405-2

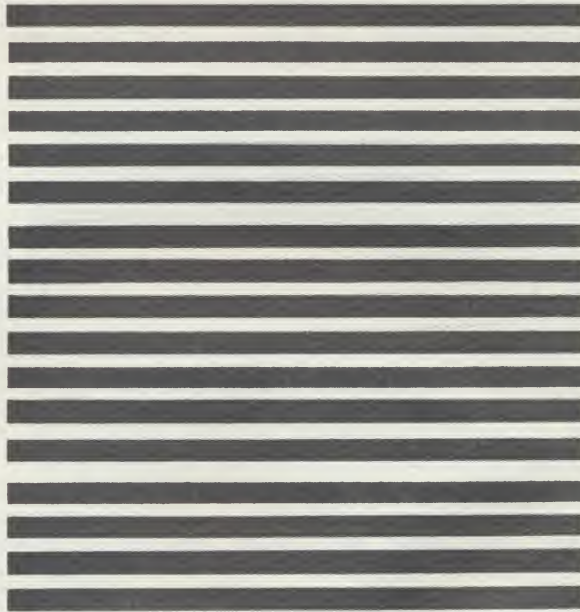


PATTERNS SHOWN ARE ACTUAL SIZE AND APPROXIMATELY HALF OF TOTAL AREA.

VECTORESIST Cat. no. R-405-3



VECTORESIST Cat. no. R-405-4



ORDERING INFORMATION

Description	Sheet Size	Line Width	Cat. No.
Vectoresist Rub-On Resist Sheet	10" x 15"	1/64", 1/32", 1/16", 3/32" and 1/8"	R405
Quadrant 1	5" x 7 1/2"	1/16"	R405-1
Quadrant 2	5" x 7 1/2"	1/64", 1/32"	R405-2
Quadrant 3	5" x 7 1/2"	3/32"	R405-3
Quadrant 4	5" x 7 1/2"	1/8"	R405-4

VECTOR ELECTRONIC CO., INC.

1100 Flower St. Glendale 1, Calif. Area - 213 Phone 245-8971



CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory	CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory
†0022-11/1-Pk.15 †0022-11/1 Pk. 100 †0022-11/1-Bulk *0077-01/15 Pk. 10	Prongs Prongs Prongs Cap	XIII XIII XIII XIII	8 8 8 4	.98 Any Quantity 5.85 Any Quantity 48.00/M Any Quantity 1.11 Any Quantity	6-N-6T 6-O-6T 7-A-12T-440	Skt. Tur. Skt. Tur. Skt. Tur.	XIV XIV XIV	2 2 7	1- 50- 200- 500- 49 199 499 999 .69 .62 .48 .46 .59 .53 .41 .40 1.14 1.03 .80 .77
*0077/50/1 *0077-50/2 *0077/50/3 *0077/50/4 0079-02/5	Pin Pin Pin Pin Box	IV IV IV IV IX	4 4 4 2 5	.06 Any Quantity .03 Any Quantity .06 Any Quantity .15 Any Quantity .33 Any Quantity	8-12 8-12-C 8-A-12T 8-M-9T 8-M-12T	Term. Tur. Term. Tur. Skt. Tur. Skt. Tur. Skt. Tur.	XIV XIV XIV XIV XIV	4 4 7 2 2	1- 50- 200- 500- 49 199 499 999 .58 .53 .41 .37 .65 .58 .45 .44 1.18 1.07 .84 .79 .76 .68 .53 .51 .79 .71 .55 .53
*0111/021-05/ .313-Pk. 50 0111-211-14/ .875-Pk. 50 0111-221-01/.25 Pk. 50	Screw Screw Screw	IX IX IX	12 5 5	2.00 Any Quantity .99 Any Quantity .66 Any Quantity	8-N-9T 8-N-12T 8-O-9T	Skt. Tur. Skt. Tur. Skt. Tur.	XIV XIV XIV	2 2 2	1- 50- 200- 500- 49 199 499 999 .76 .68 .53 .51 .79 .71 .55 .53 .65 .59 .46 .44
0111-221-07/.75 Pk. 50 0111-424-09/ .313-Pk. 50 0111-424-30/.75 Pk. 50	Screw Screw Screw	IX IX IX	5 5 5	.99 Any Quantity .66 Any Quantity .66 Any Quantity	8.5G2COP-1 8.5G2COP-2 8.5G3COP-1 8.5G3COP-2 8.5G4.8COP-1 8.5G4.8COP-2	COPPCO COPPCO COPPCO COPPCO COPPCO COPPCO	II II II II II II	4a 4a 4a 4a 4a 4a	1- 50- 200- 500- 49 199 499 999 1.41 1.27 1.18 .94 1.68 1.51 1.41 1.13 2.10 1.89 1.76 1.41 2.53 2.28 2.13 1.70 3.06 2.75 2.57 2.05 3.65 3.29 3.07 2.45
*0211-012-01 Pk. 50 0251-210-01 Pk. 100 0311-91-19 Pk. 25	Nut Nut Washer	IX IX IX	12 5 5	.50 Any Quantity 1.02 Any Quantity .50 Any Quantity	9-A-12T-440 10-12 10-12-C 10-MB-12T 10-NB-12T	Skt. Tur. Term. Tur. Term. Tur. Skt. Tur. Skt. Tur.	XIV XIV XIV XIV XIV	7 4 4 2 2	1- 50- 200- 500- 49 199 499 999 1.18 1.06 .83 .79 .62 .55 .43 .42 .68 .62 .47 .46 .89 .80 .62 .60 .89 .80 .62 .60
0311-91-19 Pk. 25 *0677/12-Pk.100	Washer Sleeving	IX XIII	5 4	.50 Any Quantity 8.25 Any Quantity	10-0-9T 10-0-12T 12-12	Skt. Tur. Skt. Tur. Term. Tur.	XIV XIV XIV	2 2 4	1- 50- 200- 500- 49 199 499 999 .69 .62 .48 .46 .73 .66 .51 .49 .67 .61 .47 .45
*0677/12-Bulk *0810-0007/.125	Sleeving Spacer	XIII IX	4 12	1000-4999 5000 & over 62.46/M 53.11/M .08 Any Quantity	17/4.8WE 17/8.5XXXP 17G4.8COP-1 17L11 18A18	Vectorbord Vectorbord COPPCO Vectorbord Vectorbord	II II II II II	4 4 4a 3 3	1- 50- 200- 500- 49 199 499 999 2.04 1.84 1.71 1.37 1.63 1.47 1.37 1.09 5.85 5.27 4.91 3.92 .40 .36 .34 .27 .43 .39 .36 .29
0865-1114/.406	Spacer	IX	5	1- 500- 1000- 499 999 4999 .04 .03 .02 .04 .03 .02	18G11.5COP-1 18G11.5COP-2 18G46COP-1 18G46COP-2	COPPCO COPPCO COPPCO COPPCO	II II II II	4a 4a 4a 4a	12.85 11.57 10.79 8.61 15.50 13.95 13.02 10.39 50.70 45.63 42.59 33.97 59.40 53.46 49.90 39.80
0865-1507/.313 0865-1513/.500 *0911-3-Pk.100 2AA2-Pk. 25 4/40-U-Pk. 50	Spacer Spacer Catch Fastener Nut	IX IX Va V XIV	5 5 10 5 3	2.18 Any Quantity 1.38 Any Quantity 1.10 Any Quantity	20X 21X 22X 22XA	Kit Kit Kit Kit	IX IX IX IX	1&5 1&5 2&5 2, 3&5	1- 50- 200- 500- 49 199 499 999 6.75 6.08 4.73 4.52 16.75 15.08 11.73 11.22 11.50 10.35 8.05 7.71 28.00 25.20 19.60 18.76 21.45 19.31 15.05 14.38
4/40-U-Bulk	Nut	XIV	3	16.28/M 1000 pcs. 14.65/M 5000 pcs. 13.67/M 25,000 pcs. 10.91/M 50,000 pcs. 1- 50- 200- 500- 49 199 499 999 7.26 6.53 5.08 4.86 1.38 Any Quantity 18.85/M 1000 pcs. 16.97/M 5000 pcs. 15.84/M 25,000 pcs. 12.63/M 50,000 pcs. 1- 50- 200- 500- 49 199 499 999 7.92 7.13 5.54 5.30 .55 .50 .39 .37 1.17 1.14 .89 .78 1.13 1.02 .79 .76 8.66 7.79 6.06 5.80	25X 26L18 27X 27XA *28X	Kit Kit Kit Kit Kit	IX IX IX IX IX	1&5 1&5 2&5 2, 3&5 11	6.75 6.08 4.73 4.52 16.75 15.08 11.73 11.22 11.50 10.35 8.05 7.71 28.00 25.20 19.60 18.76 21.45 19.31 15.05 14.38 27.50 24.75 19.25 18.43
*4-EK3 4Z-U-Pk. 50 4Z-U-Bulk	Plug-in Nut Nut	Va XIV XIV	11 3 3	7.26 6.53 5.08 4.86 1.38 Any Quantity 18.85/M 1000 pcs. 16.97/M 5000 pcs. 15.84/M 25,000 pcs. 12.63/M 50,000 pcs. 1- 50- 200- 500- 49 199 499 999 7.92 7.13 5.54 5.30 .55 .50 .39 .37 1.17 1.14 .89 .78 1.13 1.02 .79 .76 8.66 7.79 6.06 5.80	29Q9/032 29Q22/016 29Q22/032 32A3	Microbord Microbord Microbord Vectorbord	II II II II	6 6 6 3	1- 50- 200- 500- 49 199 499 999 .90 .81 .76 .60 2.07 1.86 1.74 1.39 1.38 1.24 1.16 .92 .30 .27 .25 .20
*5-E2K3 6-12 6-A-12T 6-A-12T-440 *6-E1K3	Plug-in Term. Tur. Skt. Tur. Skt. Tur. Plug-in	Va XIV XIV XIV Va	11 4 7 7 11	7.92 7.13 5.54 5.30 .55 .50 .39 .37 1.17 1.14 .89 .78 1.13 1.02 .79 .76 8.66 7.79 6.06 5.80	29Q9/032 29Q22/016 29Q22/032 32A3	Microbord Microbord Microbord Vectorbord	II II II II	6 6 6 3	1- 50- 200- 500- 49 199 499 999 .90 .81 .76 .60 2.07 1.86 1.74 1.39 1.38 1.24 1.16 .92 .30 .27 .25 .20
6-H-12 6-M-6T	Term. Tur. Skt. Tur.	XIV XIV	4 2	.50 .45 .35 .33 .69 .62 .48 .46					

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				1- 19	20- 99	100- 199	200- 999					1- 19	20- 99	100- 199	200- 999
32A9	Vectorbord	II	3	.45	.41	.38	.30	126M76/032	Microbord	II	6	2.92	2.63	2.45	1.96
32A18	Vectorbord	II	3	.72	.65	.60	.48	132A64EP	Vectorbord	II	3	13.92	12.53	11.69	9.33
32A18WE	Vectorbord	II	3	1.89	1.70	1.59	1.27	140L68EP	Vectorbord	II	3	13.92	12.53	11.69	9.33
32AA5	Vectorbord	II	3	.48	.43	.40	.32	140LL68	Vectorbord	II	3	8.62	7.76	7.24	5.78
32AA7	Vectorbord	II	3	.54	.49	.45	.36	166M76/032	Microbord	II	6	7.25	6.53	6.09	4.86
								168K38/016	Microbord	II	6	11.12	10.01	9.34	7.45
32AA9	Vectorbord	II	3	.60	.54	.50	.40	168K38/032	Microbord	II	6	6.42	5.78	5.39	4.30
32AA18	Vectorbord	II	3	.84	.76	.71	.56	169P59/016	Microbord	II	6	6.58	5.92	5.53	4.41
		IX	5					169P59/032	Microbord	II	6	4.82	4.34	4.05	3.23
32AA18EP	Vectorbord	II	3	1.40	1.26	1.18	.94	169P59/032C1	Microbord	II	6	6.61	5.95	5.55	4.43
34L19	Vectorbord	II	3	.75	.68	.63	.50	170H48EP	Vectorbord	II	4	3.51	3.16	2.95	2.35
								170H48WE/032	Vectorbord	II	4	3.57	3.21	3.00	2.39
38K19/032	Microbord	II	6	1.30	1.17	1.09	.87	175F99WE	Vectorbord	II	3	27.00	24.30	22.68	18.09
42F22C1	Vectorbord	II	3	1.00	.90	.84	.67	336M76/016	Microbord	II	6	10.89	9.80	9.15	7.30
42F22C2	Vectorbord	II	3	1.32	1.19	1.11	.88	336M76/032	Microbord	II	6	8.50	7.65	7.14	5.70
42F22WEC1	Vectorbord	II	3	2.50	2.25	2.10	1.68	336M76/032C1	Microbord	II	6	9.69	8.72	8.14	6.49
												1- 49	50- 199	200- 499	500- 999
42F22WEC2	Vectorbord	II	3	2.55	2.30	2.14	1.71	*511	Term. Card	Va	4	.69	.62	.47	.46
42G22WEC1	Vectorbord	II	4	2.55	2.30	2.14	1.71	*512	Term. Card	Va	4	.81	.73	.57	.54
42G22WEC2	Vectorbord	II	4	2.60	2.34	2.18	1.74	*513	Term. Card	Va	4	.81	.73	.57	.54
42G24	Vectorbord	II	4	.84	.76	.71	.56	*514	Term. Card	Va	4	.91	.82	.64	.61
42G24EP	Vectorbord	II	4	1.25	1.13	1.05	.84					1- 499	500- 999	1000- 4999	
42G24WE	Vectorbord	II	4	1.89	1.70	1.59	1.27	515	Wafer	IX	5	.20	.15	.12	
42G24WE/032	Vectorbord	II	4	1.25	1.13	1.05	.84	516	Wafer	IX	5	.18	.14	.11	
42G42	Vectorbord	II	4	1.80	1.62	1.51	1.21	520	Wafer	IX	5	.17	.13	.10	
42G42EP	Vectorbord	II	4	3.97	3.57	3.33	2.67					1- 49	50- 199	200- 499	500- 999
42G42WE	Vectorbord	II	4					567-1C	Socket	X	2	1.50	1.35	1.05	1.01
45B30	Vectorbord	II	3	.84	.76	.71	.56	568-1C	Socket	X	2	1.65	1.49	1.16	1.11
59P19/032	Microbord	II	6	1.09	.98	.92	.73	569-1C	Socket	X	2	1.35	1.22	.95	.90
59P44/032	Microbord	II	6	1.55	1.40	1.30	1.04	570-B	Socket	X	2	1.20	1.08	.84	.80
63K38/032	Microbord	II	6	2.69	2.42	2.26	1.80	652	Wafer Tur.	XIV	7	.89	.80	.62	.60
64A18	Vectorbord	II	3	1.25	1.13	1.05	.84	654	Wafer Tur.	XIV	7	.96	.86	.67	.64
64A18W	Vectorbord	II	3	6.95	6.26	5.84	4.66					1- 19	20- 99	100- 199	200- 999
64A18WE	Vectorbord	II	3	3.72	3.35	3.12	2.49	*812	Plugbord	IV	5	2.87	2.58	2.41	1.92
64A32WE	Vectorbord	II	3	5.42	4.88	4.55	3.63	*812WE	Plugbord	IV	5	3.39	3.05	2.85	2.27
64AA18	Vectorbord	II	3	1.60	1.44	1.34	1.07	*837	Plugbord	IV	5	2.24	2.02	1.88	1.50
		IX	5					*837WE	Plugbord	IV	5	2.48	2.23	2.08	1.66
64AA18EP	Vectorbord	II	3	2.73	2.46	2.29	1.83	*838	Plugbord	IV	8	3.51	3.33	3.21	2.91
64AA32	Vectorbord	II	3	2.45	2.21	2.06	1.64	*838-1	Plugbord	IV	8	3.51	3.33	3.21	2.91
								*838A	Plugbord	IV	8	2.70	2.54	2.45	2.18
64AA32EP	Vectorbord	II	3	4.39	3.95	3.69	2.94	*838A-1	Plugbord	IV	8	2.70	2.54	2.45	2.18
64AA132	Vectorbord	II	3	8.62	7.76	7.24	5.78	*838AWE	Plugbord	IV	8	3.35	3.13	2.99	2.61
68L19	Vectorbord	II	3	1.25	1.13	1.05	.84	*838AWE-1	Plugbord	IV	8	3.35	3.13	2.99	2.61
68L34	Vectorbord	II	3	1.95	1.76	1.64	1.31	*838C	Plugbord	IV	8	1.42	1.28	1.19	.95
68LL19	Vectorbord	II	3	1.60	1.44	1.34	1.07	*838D	Plugbord	IV	8	1.91	1.72	1.60	1.28
72A33	Vectorbord	II	3	2.24	2.02	1.88	1.50	*838PWE	Plugbord	IV	8	3.76	3.48	3.32	2.88
76M38/016	Microbord	II	6	1.67	1.51	1.41	1.13	*838WE	Plugbord	IV	8	4.12	3.87	3.73	3.32
76M38/032	Microbord	II	6	1.52	1.37	1.28	1.02	*838WE-1	Plugbord	IV	8	4.12	3.87	3.73	3.32
83K38/032	Microbord	II	6	3.36	3.02	2.82	2.25	*838WE-1GN	Plugbord	IV	8	4.64	4.46	4.34	4.04
84Q29/032	Microbord	II	6	4.39	3.95	3.69	2.94	*842	Plugbord	IV	12	2.36	2.12	1.98	1.58
85C24	Vectorbord	II	3	1.25	1.13	1.05	.84	*842WE	Plugbord	IV	12	3.15	2.84	2.65	2.11
85F24EP	Vectorbord	II	3	2.06	1.85	1.73	1.38	*846	Plugbord	IV	12	1.84	1.66	1.55	1.23
85F42EP	Vectorbord	II	3	3.17	2.85	2.66	2.12	*846A	Plugbord	IV	12	1.68	1.51	1.41	1.13
85F42WEC1	Vectorbord	II	3	9.33	8.40	7.84	6.25	*846AWE	Plugbord	IV	12	2.26	2.03	1.90	1.51
85F42WEC2	Vectorbord	II	3	10.25	9.23	8.61	6.87	*846WE	Plugbord	IV	12	2.42	2.18	2.03	1.62
85G24	Vectorbord	II	4	1.25	1.13	1.05	.84	*847	Plugbord	IV	5	2.33	2.10	1.96	1.56
85G24EP	Vectorbord	II	4	2.06	1.85	1.73	1.38	*848WE	Plugbord	IV	6	5.86	5.27	4.92	3.93
85G24W	Vectorbord	II	4	7.12	6.41	5.98	4.77	*918	Plugbord	IV	5	6.98	6.28	5.86	4.68
85G24WE	Vectorbord	II	4	3.81	3.43	3.20	2.55	1110-49-S-Pk.25	Pins	IX	4	.74	Any Quantity		
85G42	Vectorbord	II	4	1.92	1.73	1.61	1.29	1111-51-S-Pk.25	Pins	IX	4	.59	Any Quantity		
85G42EP	Vectorbord	II	4	3.17	2.85	2.66	2.12					1- 19	20- 99	100- 199	200- 999
85G42WE	Vectorbord	II	4	5.42	4.88	4.55	3.63					1.75	1.58	1.47	1.17
90B30	Vectorbord	II	3	1.62	1.46	1.36	1.09	1262	Adapter	XI	2				
95G43	Vectorbord	II	4	2.32	2.09	1.95	1.55								
95G87	Vectorbord	II	4	4.16	3.74	3.49	2.79								
95G175	Vectorbord	II	4	7.62	6.86	6.40	5.11								
120E33EP	Vectorbord	II	3	2.23	2.01	1.87	1.49								
120E33WE	Vectorbord	II	3	3.99	3.59	3.35	2.67								

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1263	Adapter	XI	2	1- 20- 100- 200- 19 99 199 999	*2899	Term. Board	IX	12	1- 500- 1000- 499 999 4999 .34 .24 .20
1264	Adapter	XI	2	1.75 1.58 1.47 1.17					
*1723/1-Bulk	Contact	XIII	4&8	29.92/M Any Quantity					
*1723B/1-Bulk	Contact	XIII	4&8	38.37/M Any Quantity					
				1- 100- 250- 99 249 499	*2900	Term. Board	IX	12	1- 50- 200- 500- 49 199 499 999
*1746/11	Con. Strip	IV	4	2.57 2.08 1.78	*2900-1	Board	IX	12	1.98 1.78 1.39 1.33
*1751/2	Con. Strip	IV	4	1.10 Any Quantity	*2900-2	Board	IX	12	1.45 1.31 1.02 .97
*1751/4	Con. Strip	IV	4	1.21 Any Quantity	*2901	Wire	IX	12	1.60 1.44 1.12 1.07
*1753A/12-Pk.50	Contact	IV	4	2.16 Any Quantity	*2902	Tubing	IX	12	1.50 Any Quantity .50 Any Quantity
				1- 50- 200- 500- 49 199 499 999	*2903	Term. Board	IX	12	1- 500- 1000- 499 999 4999
*1930-01/1	Case	Va	6	2.08 1.87 1.46 1.39	*3032	Cage	IV	16	.37 .29 .22
*1930-01/2	Case	Va	6	3.07 2.76 2.15 2.06	*3033	Cage	IV	16	16.50 Any Quantity
*1930-01/5	Case	Va	6	2.48 2.23 1.74 1.66	*3034-Pk. 2	Mtg. Strap	IV	16	16.50 Any Quantity
*1930-01/6	Case	Va	6	3.08 2.77 2.16 2.06	*3035-Pk. 2	Mtg. Strap	IV	16	5.00 Any Quantity
*1930-01/7	Case	Va	6	3.07 2.76 2.15 2.06	*3036	Mtg. Panel	IV	16	4.00 Any Quantity
*1930-16/6	Case	Va	6	1.02 .92 .71 .68	*3037	Mtg. Panel	IV	16	3.00 Any Quantity
*1930-17/10	Case	Va	6	.30 .27 .21 .20	*3038	Front Panel	IV	16	3.00 Any Quantity 9.25 Any Quantity
				1- 500- 1000- 499 999 4999					
*1930-19/4	Case	Va	6	.22 .15 .13	*3039WE	Plugbord	IV	3	1- 20- 100- 200- 19 99 199 999
				1- 50- 200- 500- 49 199 499 999	*3040WE	Plugbord	IV	3	1.95 1.75 1.64 1.31
*1930-19/11	Case	Va	6	.52 .47 .36 .35	*3041WE	Plugbord	IV	3	1.23 1.11 1.03 .82
*1930-19/15	Case	Va	6	.40 .36 .28 .27	*3042WE	Plugbord	IV	3	2.95 2.66 2.48 1.97
				1- 500- 1000- 499 999 4999	*3043WE	Plugbord	IV	3	2.08 1.87 1.75 1.39
*1930-19/17	Case	Va	6	.15 .11 .09	*3044WE	Plugbord	IV	3	7.30 6.57 6.13 4.89
				1- 20- 100- 200- 19 99 199 999	*3045WE	Plugbord	IV	3	2.07 1.86 1.73 1.39
*2123AWE	Plugbord	IV	6	7.63 6.81 6.41 5.11	*3046WE	Plugbord	IV	4	1.09 .98 .92 .73
				1- 500- 1000- 499 999 4999	*3047WE	Plugbord	IV	4	1.21 1.09 1.02 .81
2221WE	Transmount	IX	12	.04 .03 .02	*3048WE	Plugbord	IV	4	1.92 1.73 1.61 1.29
				1- 20- 100- 200- 19 99 199 999	*3057	Plugbord	IV	2	2.15 1.94 1.81 1.44
*2309C	Plugbord	IV	6	5.81 5.23 4.88 3.89	*3058	Plugbord	IV	2	2.82 2.03 1.76
2323A-20/5	Wire	IX	5	1.07 Any Quantity	*3059	Plugbord	IV	2	2.94 2.12 1.84
2323A-20/6	Wire	IX	5	.83 Any Quantity	*3060	Plugbord	IV	2	2.99 2.18 1.87
				1- 20- 100- 200- 19 99 199 999	*3061	Plugbord	IV	2	3.50 2.60 2.21
*2436	Plugbord	IV	6	5.05 4.55 4.24 3.38	*3062	Plugbord	IV	2	3.10 2.26 1.97
*2436A	Plugbord	IV	6	3.07 2.76 2.57 2.06	*3063	Plugbord	IV	2	3.29 2.42 2.09
*2436B	Plugbord	IV	6	2.17 1.95 1.83 1.46	*3064	Plugbord	IV	2	3.31 2.44 2.11
*2536WE	Plugbord	IV	6&7	6.70 6.03 5.63 4.49	*3065	Plugbord	IV	2	4.17 3.16 2.65
				1- 50- 200- 500- 49 199 499 999	*3066	Plugbord	IV	2	3.45 2.55 2.26
2592	Tape	IX	7	.87 .78 .61 .58	*3067	Plugbord	IV	2	3.65 2.72 2.34
2593	Tape	IX	7	.72 .65 .50 .48	*3068	Plugbord	IV	2	3.71 2.76 2.38
2594	Etchant	IX	7	1.38 1.24 .97 .92	3070-1EP	Vectorbord	II	3	4.89 3.75 3.17
2595-Pk.250	Clips	IX	7	.83 Any Quantity	3070-1WE	Vectorbord	II	3	1.39 1.25 1.17 .93
				1- 20- 100- 200- 19 99 199 999	3070-1XXXP	Vectorbord	II	3,	2.03 1.83 1.71 1.36
*2811WE	Plugbord	IV	3	2.48 2.23 2.08 1.66			IX	7	.84 .76 .71 .56
*2815WE	Plugbord	IV	3	3.39 3.06 2.85 2.27	3070-2EP	Vectorbord	II	3	1.67 1.50 1.40 1.12
				1- 500- 1000- 499 999 4999	3070-2WE	Vectorbord	II	3	2.21 1.99 1.86 1.48
*2896	Term. Strip	IX	12	.22 .15 .13	3070-2XXXP	Vectorbord	II	3	1.04 .94 .87 .70
*2897	Term. Strip	IX	12	.29 .22 .17	3082	Ink	IX	7	.48 Any Quantity
*2898	Term. Board	IX	12	.19 .13 .11					
				1- 20- 100- 200- 19 99 199 999	*3099	Micro Card			1- 20- 100- 19 99 199
				1- 500- 1000- 499 999 4999					5.44 4.90 4.57
				1- 20- 100- 200- 19 99 199 999	3106-1EP	Vectorbord	II	3	1- 20- 100- 200- 19 99 199 999
				1- 500- 1000- 499 999 4999	3106-1WE	Vectorbord	II	3	.68 .61 .57 .46
				1- 20- 100- 200- 19 99 199 999	3106-1XXXP	Vectorbord	II	3	1.01 .91 .85 .68
				1- 500- 1000- 499 999 4999	3106-2EP	Vectorbord	II	3	.45 .41 .38 .30
				1- 20- 100- 200- 19 99 199 999	3106-2WE	Vectorbord	II	3	.82 .74 .69 .54
				1- 500- 1000- 499 999 4999					1.10 .99 .92 .74
				1- 20- 100- 200- 19 99 199 999	3106-2XXXP	Vectorbord	II	3	.55 .50 .46 .37

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CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory	CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory
*3234	Board	V	14	1- 1.37 50- 1.23 200- .96 500- .92 49 199 499 999	B27-Bulk	Bracket	X	1	5.51/C 100-900 pcs. 46.39/M 1000 pcs. 41.75/M 5000 pcs. 38.98/M 10,000 pcs.
*3235	Board	V	14	1.87 1.68 1.31 1.25					1- 500- 1000- 499 999 4999
B1-Pk. 4	Bracket	X	1	.36 Any Quantity	*B36-4	Bracket	Va	12	.21 .15 .13
B1-Bulk	Bracket	X	1	2.50/C 100-900 pcs. 20.00/M 1000 pcs. 16.75/M 5000 pcs. 15.00/M 25,000 pcs.	*B37-4	Bracket	Va	12	.21 .15 .13
				1- 50- 200- 500- 49 199 499 999	*B38-2	Saddle	Va	12	.21 .15 .13
*B-8	Plug-in	Va	3	1.46 1.32 1.02 .98	B58-Pk. 4	Corner Clip	V	5	1.58 Any Quantity
*B-8-T	Plug-in	Va	3	1.87 1.68 1.31 1.25	*B60-Pk. 5	Guide	IVa	3	1.50 Any Quantity
*B-10	Plug-in	Va	3	1.30 1.17 .91 .87					1- 50- 200- 500- 49 199 499 999
*B-10-4	Plug-in	Va	3	2.19 1.97 1.53 1.46	B81	Channel	IX	4	.53 .48 .37 .36
*B-10-M	Plug-in	Va	3	2.28 2.05 1.60 1.53	B83	Channel	IX	4	.60 .54 .42 .40
*B-10-N	Plug-in	Va	3	2.46 2.22 1.73 1.65	B91A	Channel	IX	4	.45 .41 .32 .30
*B-10-O	Plug-in	Va	3	2.17 1.95 1.52 1.45	B95	Channel	IX	4	.51 .46 .36 .34
*B-10-T	Plug-in	Va	3	1.90 1.72 1.33 1.28	B96	Channel	IX	4	.60 .54 .42 .40
*B-12	Plug-in	Va	3	1.39 1.21 .94 .90	B97	Strip	V	5	.60 .54 .42 .40
*B-12-T	Plug-in	Va	3	2.06 1.85 1.44 1.38					1- 500- 499 999
B20-Pk. 4	Bracket	IX	5	.48 Any Quantity	*BP.3-3-11	Back Panel	V	10	.30 .22
		X	1		*BP.3-3-18	Back Panel	V	10	.30 .22
B20-Bulk	Bracket	IX	5	4.15/C 100-900 pcs. 37.28/M 1000 pcs. 34.65/M 5000 pcs. 27.83/M 10,000 pcs.	*BP.3-4-11	Back Panel	V	10	.36 .25
		X	1		*BP.3-4-18	Back Panel	V	10	.36 .25
B20A-Pk. 4	Bracket	IX	5	.61 Any Quantity	*BP.3-8-11	Back Panel	V	10	.42 .30
		X	1		*BP.3-8-18	Back Panel	V	10	.42 .30
B20A-Bulk	Bracket	IX	5	6.85/C 100-900 pcs. 59.06/M 1000 pcs. 55.13/M 5000 pcs. 44.00/M 10,000 pcs.					1- 50- 200- 500- 49 199 499 999
		X	1		*BP.7-3	Back Panel	V	10	.62 .56 .43 .42
B21-Pk. 4	Bracket	X	1	.44 Any Quantity	*BP.7-4	Back Panel	V	10	.65 .59 .46 .44
B21-Bulk	Bracket	X	1	5.03/C 100-900 pcs. 42.25/M 1000 pcs. 38.03/M 5000 pcs. 35.49/M 10,000 pcs.	*BP.7-8	Back Panel	V	10	.73 .66 .51 .49
					*BP1-3	Clos. Panel	V	12	.66 .59 .46 .44
B22-Pk. 4	Bracket	X	1	.30 Any Quantity	*BP1.3-3	Back Panel	V	10	.68 .61 .48 .46
B22-Bulk	Bracket	X	1	2.80/C 100-900 pcs. 23.55/M 1000 pcs. 21.19/M 5000 pcs. 19.78/M 10,000 pcs.	*BP1.3-4	Back Panel	V	10	.72 .65 .50 .48
					*BP1.3-8	Back Panel	V	10	.88 .79 .67 .59
B23-Pk. 4	Bracket	X	1	.44 Any Quantity	*BP1-4.6	Clos. Panel	V	12	.72 .65 .50 .48
B23-Bulk	Bracket	X	1	5.03/C 100-900 pcs. 42.25/M 1000 pcs. 38.03/M 5000 pcs. 35.49/M 10,000 pcs.	*BP1.7-3	Back Panel	V	10	.72 .65 .50 .48
					*BP1.7-4	Back Panel	V	10	.77 .69 .54 .52
B24-Pk. 4	Bracket	X	1	.30 Any Quantity	*BP1.7-8	Back Panel	V	10	.97 .87 .68 .65
B24-Bulk	Bracket	X	1	5.78/C 100-900 pcs. 48.51/M 1000 pcs. 41.67/M 5000 pcs. 38.89/M 10,000 pcs.	*BP2-3	Clos. Panel	V	12	.76 .68 .53 .51
					*BP2-4.6	Clos. Panel	V	12	.89 .80 .62 .60
B24A-Pk. 4	Bracket	X	1	.30 Any Quantity	*BP2.7-3	Back Panel	V	10	.80 .72 .56 .54
B24A-Bulk	Bracket	X	1	5.78/C 100-900 pcs. 48.51/M 1000 pcs. 41.67/M 5000 pcs. 38.89/M 10,000 pcs.	*BP2.7-4	Back Panel	V	10	.89 .80 .62 .60
					*BP2.7-8	Back Panel	V	10	1.22 1.10 .85 .82
B25-Pk. 10	Bracket	IX	5	.30 Any Quantity	*BP3-3	Clos. Panel	V	12	.86 .77 .60 .58
		X	1		*BP3-4.6	Clos. Panel	V	12	.92 .83 .64 .62
B25-Bulk	Bracket	IX	5	1.00/C 100-900 pcs. 8.35/M 1000 pcs. 7.52/M 5000 pcs. 7.01/M 25,000 pcs. 5.96/M 50,000 pcs.	*BP4.2-3	Back Panel	V	10	.95 .85 .66 .64
		X	1		*BP4.2-4	Back Panel	V	10	1.08 .97 .76 .72
B26-Pk. 10	Bracket	X	1	.53 Any Quantity	*BP4.2-8	Back Panel	V	10	1.60 1.44 1.12 1.07
B26-Bulk	Bracket	X	1	4.41/C 100-900 pcs. 37.04/M 1000 pcs. 33.34/M 5000 pcs. 31.11/M 10,000 pcs.	*BP4.5-3	Clos. Panel	V	12	.97 .87 .68 .65
					*BP4.5-4.6	Clos. Panel	V	12	1.12 1.01 .78 .75
B27-Pk. 10	Bracket	X	1	.63 Any Quantity	BR1-Pk. 10	Bracket	X	1	.53 Any Quantity
					BR1-Bulk	Bracket	X	1	1.84/C 100-900 pcs. 11.91/M 1000 pcs. 10.72/M 5000 pcs. 10.01/M 25,000 pcs. 8.51/M 50,000 pcs.
									.53 Any Quantity
					BR2-Pk. 10	Bracket	IX	5	
							X	1	
					BR2-Bulk	Bracket	IX	5	1.84/C 100-900 pcs.
							X	1	
									11.91/M 1000 pcs. 10.72/M 5000 pcs. 10.01/M 25,000 pcs. 8.51/M 50,000 pcs.
					BR3-Pk. 10	Bracket	X	1	.53 Any Quantity
					BR3-Bulk	Bracket	X	1	1.84/C 100-900 pcs. 11.91/M 1000 pcs. 10.72/M 5000 pcs. 10.01/M 25,000 pcs. 8.51/M 50,000 pcs.
									.53 Any Quantity
					BR4-Pk. 10	Bracket	IX	5	
							X	1	

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BR4-Bulk	Bracket	IX	5, 1	1.84/C	100-900 pcs.							1-49	50-199	200-499	500-999
				11.91/M	1000 pcs.										
				10.72/M	5000 pcs.										
				10.01/M	25,000 pcs.										
				8.51/M	50,000 pcs.										
								*C-12-T	Plug-in	Va	3	2.11	1.90	1.47	1.42
									Plug-in	Va	4	1.87	1.68	1.31	1.25
BR5-Pk. 10 BR5-Bulk	Bracket	X	1	.53	Any Quantity							1-499	500-999	1000-4999	
	Bracket	X	1	1.84/C	100-900 pcs.							.11	.09	.07	
				11.91/M	1000 pcs.										
				10.72/M	5000 pcs.										
				10.01/M	25,000 pcs.										
BR5.1-Pk. 10 BR5.1-Bulk	Bracket	X	1	.53	Any Quantity							1-49	50-99		
	Bracket	X	1	1.84/C	100-900 pcs.										
				14.49/M	1000 pcs.										
				13.04/M	5000 pcs.										
				12.17/M	25,000 pcs.										
BR6-Pk. 10 BR6-Bulk	Bracket	X	1	.53	Any Quantity							1-19	20-99	100-199	200-999
	Bracket	X	1	2.00/C	100-900 pcs.										
				17.01/M	1000 pcs.										
				15.31/M	5000 pcs.										
				14.28/M	25,000 pcs.										
				12.15/M	50,000 pcs.										
			</												

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CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory				CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory			
				1- 49	50- 199	200- 499	500- 999					1- 49	50- 199	200- 499	500- 999
*EFP168-14	Case	V	10	9.00	8.10	6.30	6.04	*FX-12	Plug-in	Va	5	3.46	3.11	2.42	2.32
*EFP202-4.6	Case	V	10	5.22	4.70	3.66	3.49	*FX-12K	Plug-in	Va	5	4.30	3.86	3.01	2.88
*EFP202-6.6	Case	V	10	5.52	4.97	3.86	3.70	*G1X-12	Case	Va	5	3.48	3.13	2.44	2.33
*EFP202-9.7	Case	V	10	6.00	5.40	4.20	4.02	*G1X-12-3NK-2	Plug-in	Va	5	8.35	7.51	5.84	5.59
*EFP202-14	Case	V	10	6.66	6.00	4.67	4.46	*G1X-12K	Plug-in	Va	5	4.32	3.89	3.02	2.89
*EFP204-4.6	Case	V	10	5.58	5.03	3.91	3.74	*G1.1X-12	Plug-in	Va	5	3.88	3.49	2.71	2.59
*EFP204-6.6	Case	V	10	6.00	5.40	4.20	4.02	*G1.1X-12K	Plug-in	Va	5	4.73	4.26	3.31	3.17
*EFP204-9.7	Case	V	10	6.66	6.00	4.67	4.46	*G2-10	Plug-in	Va	1	1.16	1.05	.81	.77
*EFP204-14	Case	V	10	7.56	6.80	5.29	5.06	*G2-10-2B	Plug-in	Va	1	1.21	1.09	.85	.81
*EFP208-4.6	Case	V	10	5.76	5.18	4.03	3.86	*G2-10-4	Plug-in	Va	1	2.24	2.02	1.57	1.51
*EFP208-6.6	Case	V	10	6.06	5.46	4.25	4.06	*G2-10-4B	Plug-in	Va	1	1.93	1.74	1.35	1.29
*EFP208-9.7	Case	V	10	6.54	5.89	4.58	4.38	*G2-10-KF	Plug-in	Va	1	1.25	1.13	.88	.84
*EFP208-14	Case	V	10	7.20	6.48	5.04	4.82	*G2-10-0	Plug-in	Va	1	2.23	2.01	1.56	1.50
*EFP302-4.6	Case	V	10	5.70	5.14	3.96	3.82	*G2-10-T	Plug-in	Va	1	1.93	1.74	1.53	1.29
*EFP302-6.6	Case	V	10	6.18	5.57	4.33	4.14	*G2-10-T-1	Plug-in	Va	1	1.94	1.74	1.53	1.30
*EFP302-9.7	Case	V	10	6.84	6.16	4.79	4.58	*G2.1-8	Plug-in	Va	1	1.45	1.31	1.01	.97
*EFP302-14	Case	V	10	7.80	7.02	5.46	5.23	*G2.1-8-4	Plug-in	Va	1	2.09	1.88	1.46	1.40
*EFP304-4.6	Case	V	10	6.24	5.62	4.37	4.18	*G2.1-8-4.6	Plug-in	Va	1	2.09	1.88	1.46	1.40
*EFP304-6.6	Case	V	10	6.78	6.10	4.75	4.55	†G2.1-8-4.6B	Plug-in	Va	1	2.11	1.93	1.50	1.43
*EFP304-9.7	Case	V	10	7.62	6.86	5.34	5.10	*G2.1-8F	Plug-in	Va	1	1.49	1.34	1.05	.99
*EFP304-14	Case	V	10	8.82	7.94	6.18	5.90	*G2.1-8-N	Plug-in	Va	1	2.24	2.02	1.57	1.51
*EFP308-4.6	Case	V	10	7.20	6.48	5.04	4.82	*G2.11-8	Plug-in	Va	1	.85	.76	.59	.57
*EFP308-6.6	Case	V	10	7.98	7.19	5.59	5.35	*G2.2-8	Plug-in	Va	1	1.40	1.25	.98	.94
*EFP308-9.7	Case	V	10	9.12	8.21	6.38	6.11	†G2.2-8-2B	Plug-in	Va	1	1.60	1.44	1.12	1.07
*EFP308-14	Case	V	10	10.74	9.67	7.52	7.20	*G2.2-8-4	Plug-in	Va	1	2.07	1.86	1.45	1.39
*EFP452-4.6	Case	V	10	6.24	5.62	4.32	4.18	†G2.2-8-4B	Plug-in	Va	1	1.87	1.68	1.31	1.25
*EFP452-6.6	Case	V	10	6.78	6.11	4.75	4.55	*G2.2-8F	Plug-in	Va	1	1.49	1.34	1.05	.99
*EFP452-9.7	Case	V	10	7.56	6.80	5.29	5.06	*G2.2-8-M	Plug-in	Va	1	2.12	1.91	1.49	1.42
*EFP452-14	Case	V	10	8.76	7.88	6.13	5.87	*G2.21-8	Plug-in	Va	1	.80	.73	.56	.54
*EFP454-4.6	Case	V	10	6.78	6.11	4.75	4.55	H1-63-Pk. 25	Roll Pin	V	5	.91 Any Quantity			
*EFP454-6.6	Case	V	10	7.44	6.70	5.21	4.98								
*EFP454-9.7	Case	V	10	8.40	7.56	5.88	5.63								
*EFP454-14	Case	V	10	9.78	8.81	6.85	6.55	*H1.030-12	Case	Va	7	3.83	3.44	2.68	2.57
*EFP458-4.6	Case	V	10	8.16	7.34	5.71	5.47	*H1.040-12	Case	Va	7	3.96	3.56	2.77	2.65
*EFP458-6.6	Case	V	10	9.00	8.10	6.30	6.04	*H1.050-12	Case	Va	7	4.09	3.68	2.87	2.74
*EFP458-9.7	Case	V	10	10.32	9.29	7.22	6.91	*H1.060-12	Case	Va	7	4.22	3.80	2.95	2.83
*EFP458-14	Case	V	10	12.12	10.91	8.48	8.12	*H1.075-12	Case	Va	7	4.49	4.04	3.14	3.01
*EX-12	Case	Va	5	3.13	2.82	2.20	2.10	*H1.330-12	Case	Va	7	3.90	3.52	2.74	2.62
*EX-12-3NK-2	Plug-in	Va	5	7.99	7.19	5.59	5.35	*H1.340-12	Case	Va	7	4.06	3.65	2.84	2.71
*EX-12K	Plug-in	Va	5	3.97	3.58	2.78	2.66	*H1.350-12	Case	Va	7	4.20	3.78	2.94	2.82
*FA1-Pk. 24	Fastener	V	18	.50 Any Quantity				*H1.360-12	Case	Va	7	4.37	3.94	3.06	2.93
				1- 49	50- 199	200- 499	500- 999	*H1.360-16	Case	Va	7	4.68	4.21	3.28	3.13
*FP1-3.5	Front Panel	V	8	.91	.82	.64	.61	*H1.375-12	Case	Va	7	4.63	4.16	3.24	3.11
*FP1-5.2	Front Panel	V	8	.96	.86	.67	.65	*H1.530-12	Case	Va	7	3.96	3.56	2.77	2.65
*FP1-8.7	Front Panel	V	8	1.07	.96	.74	.72	*H1.540-12	Case	Va	7	4.14	3.73	2.90	2.77
*FP1.6-3.5	Front Panel	V	8	.97	.88	.68	.65	*H1.550-12	Case	Va	7	4.32	3.89	3.02	2.89
*FP1.6-5.2	Front Panel	V	8	1.06	.95	.74	.71	*H1.560-12	Case	Va	7	5.51	4.06	3.16	3.02
*FP1.6-8.7	Front Panel	V	8	1.24	1.12	.86	.83	*H1.575-12	Case	Va	7	4.78	4.30	3.35	3.20
*FP2-3.5	Front Panel	V	8	1.02	.92	.72	.68	*H2.030-12	Case	Va	7	4.22	3.80	2.95	2.83
*FP2-5.2	Front Panel	V	8	1.12	1.01	.78	.74	*H2.040-12	Case	Va	7	4.49	4.04	3.14	3.02
*FP2-8.7	Front Panel	V	8	1.33	1.20	.94	.89	*H2.050-12	Case	Va	7	4.75	4.27	3.32	3.18
*FP3-3.5	Front Panel	V	8	1.13	1.02	.79	.76	*H2.060-12	Case	Va	7	5.02	4.51	3.52	3.36
*FP3-5.2	Front Panel	V	8	1.38	1.25	.97	.92	*H2.075-12	Case	Va	7	5.28	4.75	3.70	3.54
*FP3-8.7	Front Panel	V	8	1.60	1.44	1.12	1.07	*HA-1-Pk. 2	Handle	V	18	2.75 Any Quantity			
*FP4.5-3.5	Front Panel	V	8	1.40	1.26	.98	.94	*HA2-Pk. 2	Handle	V	18	2.75 Any Quantity			
*FP4.5-5.2	Front Panel	V	8	1.64	1.48	1.15	1.10	HD2.1-Pk. 50	Nut	VII	1	.80 Any Quantity			
*FP4.5-8.7	Front Panel	V	8	2.12	1.90	1.49	1.43			IX	5				
*FP34-2-Pk. 2	Fill. Panel	V	18	1.25	1.13	.88	.84	HD6	Kit	V	5	1.98 Any Quantity			
*FP34-19	Fill. Panel	V	18	.95	.86	.67	.64	*HD8	Kit	V	18	2.50 Any Quantity			
*FP52-2-Pk. 2	Fill. Panel	V	18	1.50	1.35	1.05	1.01					1- 49	50- 199	200- 499	500- 999
*FP52-19	Fill. Panel	V	18	1.14	1.03	.80	.76	*HF16-31-46/21	Case	V	14	5.97	5.38	4.18	4.00
*FP87-2-Pk. 2	Fill. Panel	V	18	1.70	1.53	1.19	1.14	*HF16-31-46/22	Case	V	14	6.02	5.41	4.21	4.03
*FP87-19	Fill. Panel	V	18	1.29	1.16	.90	.86	*HF16-46-66/21	Case	V	14	6.37	5.73	4.46	4.27
FT-1-Pk. 8	Rubber Feet	V	5	.58 Any Quantity				*HF16-46-66/22	Case	V	14	6.41	5.78	4.99	4.30
								*HF20-31-42/1	Case	V	11	3.74	3.37	2.62	2.51

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CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory	CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory								
				<table><tr><td>1-</td><td>50-</td><td>200-</td><td>500-</td></tr><tr><td>49</td><td>199</td><td>499</td><td>999</td></tr></table>	1-	50-	200-	500-	49	199	499	999	K7-Pk. 25	Pin	IX	2, 5	2.52 Any Quantity
1-	50-	200-	500-														
49	199	499	999														
*HF20-31-42/3	Case	V	11	4.02 3.62 2.82 2.70													
*HF20-31-46/21	Case	V	14	6.33 5.70 4.43 4.24					<table><tr><td>100-900</td><td>1000</td></tr><tr><td>8.25</td><td>60.50/M</td></tr></table>	100-900	1000	8.25	60.50/M				
100-900	1000																
8.25	60.50/M																
*HF20-31-46/23	Case	V	14	6.40 5.76 4.48 4.29	K7-Bulk	Pin	IX	2,									
*HF20-31-86/1	Case	V	11	5.50 4.65 3.85 3.69					<table><tr><td>1-</td><td>1000-</td><td>5000</td></tr><tr><td>999</td><td>4999</td><td></td></tr></table>	1-	1000-	5000	999	4999			
1-	1000-	5000															
999	4999																
*HF20-46-62/1	Case	V	11	4.40 3.96 3.08 2.95													
*HF20-46-62/2	Case	V	11	4.68 4.21 3.28 3.14	*K9.06	Patchcord	XIII	4	.93 .84 .70								
*HF20-46-66/21	Case	V	14	6.73 6.06 4.71 4.51	*K9.09	Patchcord	XIII	4	.93 .84 .70								
*HF20-46-66/23	Case	V	14	6.81 6.13 4.76 4.57	*K9.15	Patchcord	XIII	4	.93 .84 .70								
*HF20-86/31	Case	IX	12	5.50 4.95 3.85 3.69	†K10.09	Patchcord	XIII	4	.98 Any Quantity								
*K	Plug	Va	8,	.34 .31 .24 .23	†K10.15	Patchcord	XIII	4	.98 Any Quantity								
		Va	10						<table><tr><td>1-39</td><td>40 & over</td></tr></table>	1-39	40 & over						
1-39	40 & over																
*K1	Plug	Va	8,	<table><tr><td>1-</td><td>500-</td><td>1000-</td></tr><tr><td>499</td><td>999</td><td>4999</td></tr></table>	1-	500-	1000-	499	999	4999	†K11.09-Pk. 25	Patchcord	XIII	4	16.00 10.75		
1-	500-	1000-															
499	999	4999															
		Va	10	.28 .21 .17	†K11.15-Pk. 25	Patchcord	XIII	4	16.75 11.25								
					†K12.09-Pk. 25	Patchcord	XIII	4	16.50 10.96								
					†K12.15-Pk. 25	Patchcord	XIII	4	17.00 9.30								
					†K13.06	Patchcord	XIII	8	1.75 Any Quantity								
*K1.04	Plug	Va	10	<table><tr><td>1-</td><td>50-</td><td>200-</td><td>500-</td></tr><tr><td>49</td><td>199</td><td>499</td><td>999</td></tr></table>	1-	50-	200-	500-	49	199	499	999	†K13.09	Patchcord	XIII	8	1.80 Any Quantity
1-	50-	200-	500-														
49	199	499	999														
				.48 .43 .34 .32	†K13.15	Patchcord	XIII	8	1.90 Any Quantity								
					†K14.06	Patchcord	XIII	8	2.25 Any Quantity								
					†K14.09	Patchcord	XIII	8	2.30 Any Quantity								
*K1.1	Plug	Va	8,	<table><tr><td>1-</td><td>500-</td><td>1000-</td></tr><tr><td>499</td><td>999</td><td>4999</td></tr></table>	1-	500-	1000-	499	999	4999	†K15.09	Patchcord	XIII	8	1.99 Any Quantity		
1-	500-	1000-															
499	999	4999															
		Va	10	.29 .22 .17			IV	7									
					†K18.06	Patchcord	XIII	8	1.10 Any Quantity								
					†K18.09	Patchcord	XIII	8	1.15 Any Quantity								
					†K18.15	Patchcord	XIII	8	1.25 Any Quantity								
*K1.14	Plug	Va	10,	<table><tr><td>1-</td><td>50-</td><td>200-</td><td>500-</td></tr><tr><td>49</td><td>199</td><td>499</td><td>999</td></tr></table>	1-	50-	200-	500-	49	199	499	999	*K23A-Pk. 50	Plug Pins	IV	7,11	1.93 Any Quantity
1-	50-	200-	500-														
49	199	499	999														
		Va	12	.99 .89 .69 .66	*K23A-Bulk	Plug Pins	IV	11	30.80/M 1000 pcs.								
									27.72/M 5000 pcs.								
*K1.302	Plug	Va	12	.47 .42 .33 .31					20.64/M 10,000 pcs.								
*K1.313	Plug	Va	12	.47 .42 .33 .31	*K23C-Pk. 50	Plug Pins	IV	11	1.76 Any Quantity								
*K1.321	Plug	Va	12	.47 .42 .33 .31	*K23C-Bulk	Plug Pins	IV	11	28.00/M 1000 pcs.								
									25.25/M 5000 pcs.								
*K1.334	Plug	Va	10	.53 .48 .37 .36					23.56/M 10,000 pcs.								
		Va	12		K24A-Pk. 50	Plug Pins	IV	11	1.38 Any Quantity								
*K1.402	Plug	Va	12	.52 .47 .36 .35			Iva	5									
*K1.413	Plug	Va	12	.52 .47 .36 .35	K24A-Bulk	Plug Pins	IV	11,	19.80/M 1000 pcs.								
†K1.421	Plug	Va	12	.73 .66 .51 .49			Iva	5									
*K1.434	Plug	Va	10,	.58 .52 .41 .39					17.82/M 5000 pcs.								
		Va	12						13.86/M 10,000 pcs.								
†K1.6	Plug	Va	8,	1.75 Any Quantity	K24C-Pk. 50	Plug Pins	IV	11,	.83 Any Quantity								
		Va	10				Iva	5									
†K1.61	Plug	Va	8	2.27 Any Quantity	K24C-Bulk	Plug Pins	IV	11,	10.78/M 1000 pcs.								
†K1.62	Plug	Va	8	2.67 Any Quantity			Iva	5									
†K1.71	Plug	Va	8,	1.00 Any Quantity					9.70/M 5000 pcs.								
		Va	10						7.55/M 10,000 pcs.								
†K1.72	Plug	Va	8,	1.35 Any Quantity													
		Va	10		*K25-Pk. 50	Pin	IV	7,11	1.93 Any Quantity								
*K2.02-1-Pk. 25	Patchcord	XIII	4	2.95 Any Quantity	*K25-Bulk	Pin	IV	7,11	30.80/M 1000 pcs.								
*K2.06-Pk. 25	Patchcord	XIII	4	2.60 Any Quantity	*K25C-Pk. 50	Pin	IV	11	1.76 Any Quantity								
*K2.09-Pk. 25	Patchcord	XIII	4	2.68 Any Quantity	*K25C-Bulk	Pin	IV	11	28.00/M 1000 pcs.								
*K2.15-Pk. 25	Patchcord	XIII	4	3.08 Any Quantity													
†K3.02-Pk. 25	Patchcord	XIII	8	2.60 Any Quantity	K26A-Pk. 50	Inbord Pin	Iva	5	.88 Any Quantity								
					K26A-Bulk	Inbord Pin	Iva	5	12.65/M 1000 pcs.								
†K3.06-Pk. 25	Patchcord	XIII	8	2.19 Any Quantity					11.39/M 5000 pcs.								
†K3.09-Pk. 25	Patchcord	XIII	8	2.40 Any Quantity					8.80/M 10,000 pcs.								
†K3.15-Pk. 25	Patchcord	XIII	8	2.85 Any Quantity													
				<table><tr><td>1-39</td><td>40 & over</td></tr></table>	1-39	40 & over	K26C-Pk. 50	Inbord Pin	Iva	5	.66 Any Quantity						
1-39	40 & over																
†K3.24-Pk. 25	Patchcord	XIII	8	5.00 3.75	K26C-Bulk	Inbord Pin	Iva	5	8.25/M 1000 pcs.								
†K4.09-Pk. 25	Patchcord	XIII	8	4.70 Any Quantity					7.43/M 5000 pcs.								
†K4.15-Pk. 25	Patchcord	XIII	8	4.98 Any Quantity					5.78/M 10,000 pcs.								
				<table><tr><td>1-39</td><td>40 & over</td></tr></table>	1-39	40 & over	K27A-Pk. 50	Inbord Pin	Iva	5	.83 Any Quantity						
1-39	40 & over																
†K4.24-Pk. 25	Patchcord	XIII	8	8.25 5.48	K27A-Bulk	Inbord Pin	Iva	5	10.73/M 1000 pcs.								
†K5.09-Pk. 25	Patchcord	XIII	8	6.00 Any Quantity					9.63/M 5000 pcs.								
†K5.15-Pk. 25	Patchcord	XIII	8	8.50 Any Quantity					7.48/M 10,000 pcs.								
				<table><tr><td>1-39</td><td>40 & over</td></tr></table>	1-39	40 & over	K27C-Pk. 50	Inbord Pin	Iva	5	.66 Any Quantity						
1-39	40 & over																
†K5.24-Pk. 25	Patchcord	XIII	8	10.59 7.09	K27C-Bulk	Inbord Pin	Iva	5	7.43/M 1000 pcs.								
									6.60/M 5000 pcs.								
K6.09-Pk. 25	Patchcord	IX	5	3.00 Any Quantity					5.23/M 10,000 pcs.								
K6.15-Pk. 25	Patchcord	IX	5	3.00 Any Quantity	*K28-Pk. 50	Plug Pins	IV	7	1.93 Any Quantity								
							IV	11									

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*K28-Bulk	Plug Pins	IV	11	30.80/M 1000 pcs. 27.72/M 5000 pcs. 20.64/M 10,000 pcs.	*M-1100-5	Case	Va	6	1- 500- 1000- 499 999 4999
*K35	Pin	IVa	3	.08 Any Quantity	*M-1100-7	Case	Va	6	.22 .17 .13
				1- 50- 200- 500- 49 199 499 999	*M-1100-9	Case	Va	6	.30 .21 .18
K510	Bracket	X	1	.25 .23 .18 .17					.21 .16 .13
K604COP	COPPCO	II	4a	10.00 Any Quantity	*M-1100-13	Case	Va	6	1- 50- 200- 500- 49 199 499 999
*K2001-Pk. 100	Prong	XIII	4	2.40 Any Quantity	*M-1106-5	Case	Va	6	1.00 .90 .70 .67
*K2001-Bulk	Prong	XIII	4	19.15/M 1000-4000 pcs. 17.74/M 5000-24,000 pcs. 16.29/M 25,000-49,000 pcs. 13.68/M 50,000 & over pcs	*M-1106-7	Case	Va	6	.45 .41 .32 .30
				1-39 40 & over	*M-1106-9	Case	Va	6	.40 .36 .28 .27
†KG3.02-Pk. 25	Patchcord	XIII	8	5.25 3.50	*M-1106-11	Case	Va	6	.45 .41 .32 .30
†KG3.06-Pk. 25	Patchcord	XIII	8	3.20 Any Quantity					.65 .59 .46 .44
†KG3.09-Pk. 25	Patchcord	XIII	8	3.40 Any Quantity	*M-1136	Base	Va	6	1- 50- 100- 200- 499 999 4999
				1-39 40 & over	*MC-2287-7	Case	Va	6	.08 .06 .05
†KG3.15-Pk. 25	Patchcord	XIII	8	6.25 4.25	*MC-2414-2	Base	Va	6	.19 .14 .11
†KG3.24-Pk. 25	Patchcord	XIII	8	6.99 4.70	*MC3061-7	Case	Va	6	.07 .05 .04
†KG4.09-Pk. 25	Patchcord	XIII	8	10.25 7.25	*MS-167	Marker Strip	V	18	.60 Any Quantity
†KG4.15-Pk. 25	Patchcord	XIII	8	11.50 7.75	NT2-1-Pk. 25	Nut	V	5	.39 Any Quantity
†KG4.24-Pk. 25	Patchcord	XIII	8	11.95 7.98	NT4-1-Pk. 25	Nut	V	5	.39 Any Quantity
†KG5.09-Pk. 25	Patchcord	XIII	8	14.00 9.50	*NT4-2-Pk. 75	Nut	V	17	.95 Any Quantity
†KG5.15-Pk. 25	Patchcord	XIII	8	14.75 9.85	*NT6-1-Pk. 12	Nut	V	17	.80 Any Quantity
†KG5.24-Pk. 25	Patchcord	XIII	8	15.75 10.50	*NT6-2-Pk. 24	Nut	V	18	4.25 Any Quantity
*KG2001-Bulk	Prong	XIII	4	30.00/M 1000-4000 pcs.					1- 20- 100- 200- 19 99 199 999
†KP-1-Pk. 25	Patchcord	XIII	8	2.40 Any Quantity	P1	Probe	XI	1, 2	.52 .47 .44 .35
				1- 50- 200- 500- 49 199 499 999	P2	Probe	XI	3	.75 .68 .63 .50
*KR1.334	Plug	Va	12	.62 .56 .43 .42					1- 50- 200- 500- 49 199 499 999
*KR1.434	Plug	Va	12	.67 .60 .47 .45	*P-3	Tool	IV	11	.83 .75 .58 .56
				1- 500- 1000- 499 999 4999	*P-4	Tool	IV	11	1.40 1.26 .98 .94
*L9.5	Lockstud	Va	10	.14 .11 .08	*P7	Plug	Va	8,10	.47 .42 .33 .31
*L9.6	Lockstud	Va	10	.13 .10 .08					.47 .42 .33 .31
*L9.7	Lockstud	Va	10	.17 .13 .10	*P7A	Plug	Va	12	.47 .42 .33 .31
*L14	Receptacle	Va	9	.06 .05 .04					1- 20- 100- 200- 19 99 199 999
*L17	Lock	Va	10	1.50 Any Quantity	*P7C	Adapter	Va	2, XI	1.24 1.12 1.05 .84
				1- 500- 1000- 499 999 4999	*P7D	Adapter	XI	2	1.74 1.56 1.46 1.17
*L18	Lock	Va	10	.18 .14 .11					1- 50- 200- 500- 49 199 499 999
*L2711-8	Lock	Va	9	.30 Any Quantity	*P8C	Plug-in	Va	2	.74 .67 .52 .50
*L2711-9	Lock	Va	9	.30 Any Quantity	*P8L	Plug	Va	10, 12	.95 .86 .67 .64
*L2711-10	Lock	Va	9	.30 Any Quantity	*P9	Plug	Va	8,10	.52 .47 .36 .35
*L2711-11	Lock	Va	9	.30 Any Quantity	*P9A	Plug	Va	12	.52 .47 .36 .35
									1- 20- 100- 200- 19 99 199 999
*L2711-12	Lock	Va	9	.30 Any Quantity	*P9C	Adapter	Va	2, XI	1.39 1.24 1.17 .92
*L2711-15	Lock	Va	9	.30 Any Quantity	*P9D	Adapter	Va	2, XI	1.84 1.65 1.54 1.23
*L2711-16	Lock	Va	9	.35 Any Quantity					1.15 Any Quantity
*L2711-17	Lock	Va	9	.35 Any Quantity	*P-13	Tool	V	18	5.00 Any Quantity
				1- 50- 200- 500- 49 199 499 999	P-21-6	Tool	VII	2	1- 50- 200- 500- 49 199 499 999
*M54	Base	Va	6	.42 .37 .30 .28					.50 .45 .35 .34
				1- 500- 1000- 499 999 4999	P-91	Tool	VII	3, 6	1.30 Any Quantity
*M62	Base	Va	6	.26 .20 .15					1- 50- 200- 500- 49 199 499 999
				1- 50- 200- 500- 49 199 499 999	P-91A	Tool	VII	3	1- 50- 200- 500- 49 199 499 999
*M63	Base	Va	6	.28 .25 .20 .19					.50 .45 .35 .34
*M64	Base	Va	6	.42 .37 .29 .28	P-92A	Tool	VII	1, IX	.50 .45 .35 .34
				1- 500- 1000- 499 999 4999					26.00 Any Quantity
*M-1010-1	Base	Va	6	.13 .10 .08	*P-93	Tool	IV	7,11	3.25 Any Quantity
					*P-95	Tool	IV	11	5.00 Any Quantity
					*P-95A	Tool	IV	11	

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*P-95B	Tool	IV	11	1.93 Any Quantity					1- 50- 200- 500- 49 199 499 999
P-96	Tool	VII	4	15.75 Any Quantity	*PL8066	Side Panel	V	10	2.48 2.23 1.74 1.67
P-96A	Tool	VII	4	5.25 Any Quantity	*PL8097	Side Panel	V	10	3.28 2.95 2.29 2.20
P-96B	Tool	VII	4	5.00 Any Quantity	*PL27140	Side Panel	V	10	1.76 1.58 1.24 1.18
				1- 50- 200- 500- 49 199 499 999	*PL45140	Side Panel	V	10	2.81 2.53 1.97 1.88
					*PL80140	Side Panel	V	10	4.37 3.92 3.06 2.93
P-97	Tool	IV	11	.81 .73 .57 .54					1-9 10-49
*P-100	Tool	VII	5	12.25 Any Quantity	†PPB204	Patchboard	XIII	7	75.00 71.25
*P-101	Tool	VII	5	12.50 Any Quantity	†PPB204A	Patchboard	XIII	7	75.00 71.25
*P-102	Tool	VII	5	13.40 Any Quantity	†PPB204G	Patchboard	XIII	7	90.00 85.50
*P-103	Tool	VII	6	13.40 Any Quantity	†PPB300	Patchboard	XIII	7	105.00 99.75
					†PPB300A	Patchboard	XIII	7	105.00 99.75
*P-104	Tool	VII	6	13.40 Any Quantity					
*P-108	Tool	Va	9	25.00 Any Quantity	†PPB300G	Patchboard	XIII	7	122.00 110.00
P-109	Tool	VII	4	14.89 Any Quantity	†PPB450	Patchboard	XIII	7	115.00 109.25
P-110	Tool	VII	4	13.07 Any Quantity	†PPB450A	Patchboard	XIII	7	115.00 109.25
P-111	Tool	VII	4	25.25 Any Quantity	†PPB450G	Patchboard	XIII	7	142.00 134.90
					†PPB600	Patchboard	XIII	7	125.00 118.75
P-112	Tool	VII	4	25.25 Any Quantity					
*P-113	Tool	VII	6	12.25 Any Quantity	†PPB600A	Patchboard	XIII	7	125.00 118.75
*P-115	Tool	XIII	4	62.50 Any Quantity	†PPB600G	Patchboard	XIII	7	145.00 135.00
		XIII	8		†PPB1200	Patchboard	XIII	7	190.00 180.50
P-116	Tool	V	14,	1.85 Any Quantity	†PPB1200A	Patchboard	XIII	7	190.00 180.50
		IX	4,		†PPB1200G	Patchboard	XIII	7	262.00 248.90
		IX	12						1- 500- 1000- 499 999 4999
P-116A	Tool	IX	4	1.98 Any Quantity	R7	Socket	IVa	7	.11 .08 .07
*P-117	Tool	IX	12	.96 Any Quantity					1- 50- 200- 500- 49 199 499 999
*P-119	Tool	VII	5	12.47 Any Quantity	R7B21J	Socket	X	1	.47 .42 .33 .31
*P-121	Tool	VII	5	11.15 Any Quantity	R7BR2J	Socket	X	1	.44 .40 .31 .29
P-122	Tool	VII	2,	1.00 Any Quantity					1- 500- 1000- 499 999 4999
		IX	5		R7J	Socket	IVa	7	.20 .15 .12 .11
P-125	Tool	VII	4	4.75 Any Quantity					1- 50- 200- 500- 49 199 499 999
P-126	Tool	VII	4	4.75 Any Quantity	R8	Socket	IVa	7	.11 .08 .07
*P-127	Tool	XIII	4	13.50 Any Quantity			IX	5	1- 50- 200- 500- 49 199 499 999
*P-128	Tool	IV	4	6.10 Any Quantity	R8B21J	Socket	X	1	1.00 .90 .70 .67
*P-129	Tool	XIII	4	7.85 Any Quantity	R8BR3J	Socket	X	1	1.24 1.12 .87 .83
					R8J	Socket	IVa	7	.46 .41 .32 .31
P-131	Tool	IVa	5	1.75 Any Quantity	R8.5	Socket	IVa	7	.42 .38 .29 .28
P-132	Tool	IVa	5	1.75 Any Quantity					1- 500- 1000- 499 999 4999
P-133	Tool	IVa	5	1.75 Any Quantity	R9	Socket	IVa	7	.13 .10 .08
P-134	Tool	IVa	5	1.75 Any Quantity					1- 50- 200- 500- 49 199 499 999
P-135	Tool	II	4a	1.50 Any Quantity	R9B21J	Socket	X	1	.53 .48 .37 .36
					R9BR2J	Socket	X	1	.50 .45 .35 .34
									1- 500- 1000- 499 999 4999
					R9J	Socket	IVa	7	.23 .17 .14
									1- 50- 200- 500- 49 199 499 999
*PB33-2	Patchboard	XIII	2	2.95 2.66 2.07 1.98					1- 500- 1000- 499 999 4999
*PB110-2	Patchboard	XIII	2	3.25 2.93 2.28 2.17					1- 50- 200- 500- 49 199 499 999
*PB210-2	Patchboard	XIII	2	4.25 3.83 2.98 2.85					1- 500- 1000- 499 999 4999
*PB510-2	Patchboard	XIII	2	6.45 5.81 4.52 4.32					1- 50- 200- 500- 49 199 499 999
*PB1010	Patchboard	XIII	2	10.75 9.68 7.53 7.20					1- 500- 1000- 499 999 4999
									1- 50- 200- 500- 49 199 499 999
*PB1010-1	Patchboard	XIII	2	10.85 9.77 7.60 7.27					1- 500- 1000- 499 999 4999
*PB1010-2	Patchboard	XIII	2	10.85 9.77 7.60 7.27					1- 50- 200- 500- 49 199 499 999
*PB1020-2	Patchboard	XIII	2	21.60 19.44 15.05 14.47					1- 500- 1000- 499 999 4999
*PB1520-2	Patchboard	XIII	2	32.35 29.12 22.65 21.67					1- 50- 200- 500- 49 199 499 999
				1- 50- 200- 500- 49 199 499 999					1- 500- 1000- 499 999 4999
*PK1D	Cable Con.	Va	2	.69 .62 .48 .46					1- 50- 200- 500- 49 199 499 999
*PL3.0/4.5	Panel	V	12	.42 .38 .29 .28					1- 500- 1000- 499 999 4999
*PL4.5/6.5	Panel	V	12	.49 .44 .34 .33					1- 50- 200- 500- 49 199 499 999
PL4.8/8.5	Panel	V	5	.76 .68 .53 .52					1- 500- 1000- 499 999 4999
PL4.8/17	Panel	V	5	1.28 1.15 .90 .86					1- 50- 200- 500- 49 199 499 999
									1- 500- 1000- 499 999 4999
PL8.5/17	Panel	V	5	1.96 1.76 1.37 1.31					1- 50- 200- 500- 49 199 499 999
*PL2746	Side Panel	V	10	.96 .86 .67 .65					1- 500- 1000- 499 999 4999
*PL2766	Side Panel	V	10	1.13 1.02 .79 .76					1- 50- 200- 500- 49 199 499 999
*PL2797	Side Panel	V	10	1.39 1.25 .97 .92					1- 500- 1000- 499 999 4999
*PL4546	Side Panel	V	10	1.22 1.10 .85 .82					1- 50- 200- 500- 49 199 499 999
									1- 500- 1000- 499 999 4999
*PL4566	Side Panel	V	10	1.51 1.36 1.06 1.01					1- 50- 200- 500- 49 199 499 999
*PL4597	Side Panel	V	10	2.32 2.09 1.62 1.55					1- 500- 1000- 499 999 4999
*PL8046	Side Panel	V	10	1.97 1.78 1.38 1.32					1- 50- 200- 500- 49 199 499 999
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* LIMITED AUTHORIZED VECTOR INDUSTRIAL DISTRIBUTORS AND O.E.M. - † LIMITED TO O.E.M.

VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area-213 Phone 245-8971 TWX 213-240-2162

PRICE LIST



CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory				CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory			
				1- 49	50- 199	200- 499	500- 999					1- 49	50- 199	200- 499	500- 999
SR1-10/062 Pk. 2	Side Rails	V	6	1.38	1.25	.97	.92	*SR2-14/062A Pk. 2	Side Rails	V	8	2.26	2.03	1.58	1.51
SR1-14/062 Pk. 2	Side Rails	V	8	1.50	1.36	1.06	1.01	SR2-14/093 Pk. 2	Side Rails	V	1	1.80	1.62	1.26	1.21
*SR1-14/062A Pk. 2	Side Rails	V	8	1.91	1.72	1.33	1.28	SR2-17/093 Pk. 2	Side Rails	V 1, IX 5		2.10	1.90	1.48	1.40
SR1-24/062 Pk. 2	Side Rails	V	6	2.10	1.90	1.48	1.40	SR2-24/062 Pk. 2	Side Rails	V	6	2.52	2.26	1.76	1.69
								SR2-24/093 Pk. 2	Side Rails	V	1	2.52	2.26	1.76	1.69
SR1.6-3.1/062 Pk. 2	Side Rails	V	6	.96	.86	.67	.65	SR3-3.1/062 Pk. 2	Side Rails	V	7	1.20	1.08	.84	.80
SR1.6-4.6/062 Pk. 2	Side Rails	V	6	1.08	.97	.76	.72	SR3-4.6/062 Pk. 2	Side Rails	V	7	1.38	1.25	.97	.92
*SR1.6-4.6/062A Pk. 2	Side Rails	V	8	1.43	1.28	1.00	.96	*SR3-4.6/062A Pk. 2	Side Rails	V	8	1.81	1.63	1.27	1.21
SR1.6-6.6/062 Pk. 2	Side Rails	V	6	1.20	1.08	.84	.80	SR3-6.6/062 Pk. 2	Side Rails	V	7	1.68	1.51	1.18	1.13
*SR1.6-6.6/062A Pk. 2	Side Rails	V	8	1.56	1.40	1.08	1.04	*SR3-6.6/062A Pk. 2	Side Rails	V	8	2.12	1.91	1.49	1.43
*SR1.6-9.7/062A Pk. 2	Side Rails	V	8	1.75	1.57	1.22	1.18	*SR3-9.7/062A Pk. 2	Side Rails	V	8	2.60	2.34	1.82	1.74
SR1.6-10/062 Pk. 2	Side Rails	V	6	1.44	1.30	1.01	.96	SR3-10/062 Pk. 2	Side Rails	V	7	2.16	1.94	1.51	1.45
SR1.6-14/062 Pk. 2	Side Rails	V	6	1.68	1.51	1.18	1.13	SR3-14/062 Pk. 2	Side Rails	V	7	2.64	2.38	1.85	1.77
*SR1.6-14/062A Pk. 2	Side Rails	V	8	2.09	1.88	1.46	1.40	*SR3-14/062A Pk. 2	Side Rails	V	8	3.28	2.95	2.29	2.20
SR1.6-24/062 Pk. 2	Side Rails	V	6	2.34	2.11	1.64	1.57	SR3-24/062 Pk. 2	Side Rails	V	7	4.08	3.67	2.86	2.73
SR2-3/093-Pk.2	Side Rails	V	1	1.02	.92	.72	.68	SR4.5-3.1/062 Pk. 2	Side Rails	V	7	1.32	1.18	.92	.88
SR2-3.1/062 Pk. 2	Side Rails	V	6	1.02	.92	.72	.68	SR4.5-4.6/062 Pk. 2	Side Rails	V	7	1.62	1.46	1.13	1.09
SR2-4.6/062 Pk. 2	Side Rails	V	6	1.14	1.03	.80	.77	*SR4.5-4.6/062A Pk. 2	Side Rails	V	8	2.18	1.96	1.52	1.46
SR2-4.6/062A Pk. 2	Side Rails	V	8	1.48	1.33	1.03	.98	SR4.5-6.6/062 Pk. 2	Side Rails	V	7	1.98	1.79	1.39	1.33
SR2-4.8/093 Pk. 2	Side Rails	V 1, IX 5		1.14	1.03	.80	.77	*SR4.5-6.6/062A Pk. 2	Side Rails	V	8	2.60	2.34	1.82	1.74
SR2-6.6/062 Pk. 2	Side Rails	V	6	1.26	1.14	.89	.84	*SR4.5-9.7/062A Pk. 2	Side Rails	V	8	3.26	2.94	2.28	2.18
*SR2-6.6/062A Pk. 2	Side Rails	V	8	1.64	1.48	1.15	1.10	SR4.5-10/062 Pk. 2	Side Rails	V	7	2.64	2.38	1.85	1.76
SR2-6.6/093 Pk. 2	Side Rails	V	1	1.26	1.14	.89	.84	SR4.5-14/062 Pk. 2	Side Rails	V	7	3.24	2.92	2.27	2.17
SR2-8.5/093 Pk. 2	Side Rails	V 1, IX 5		1.38	1.25	.97	.92	*SR4.5-14/062A Pk. 2	Side Rails	V	8	4.16	3.74	2.92	2.78
*SR2-9.7/062A Pk. 2	Side Rails	V	8	1.91	1.72	1.33	1.28	SR4.5-24/062 Pk. 2	Side Rails	V	7	5.10	4.60	3.58	3.42
SR2-10/062 Pk. 2	Side Rails	V	6	1.50	1.36	1.06	1.01								
SR2-10/093 Pk. 2	Side Rails	V	1	1.50	1.36	1.06	1.01								
SR2-14/062 Pk. 2	Side Rails	V	6	1.80	1.62	1.26	1.21								

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VECTOR ELECTRONIC CO., INC. 1100 Flower St. Glendale, Calif. 91201 Area - 213 Phone 245-8971

TWX 213-240-2162

PRICE LIST



CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory				CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory	CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory
*T14.1-Pk. 1000	Terminal	VII	5	1- 5- 25- 50- 4 24 49 99 43.79 39.41 36.78 36.78	*T29-Pk. 100	Terminal	VII	6	2.45 Any Quantity
T15.22-Pk. 1000	Eyelet	VII	4	2.50 2.25 2.10 1.68					1- 5- 25- 50- 4 24 49 99
T15.23-Pk. 1000	Eyelet	IV	8	2.52 2.27 2.12 1.69	*T29-Pk. 1000	Terminal	VII	6	16.92 15.23 14.21 14.21
		IVa	5						1- 20- 100- 200- 19 99 199 999
T15.24-Pk. 1000	Eyelet	VII	4	2.54 2.29 2.13 1.70	T30-2-Pk. 10	Terminal	VII	1	.99 .89 .83 .66
T15.26-Pk. 1000	Eyelet	VII	4	4.41 3.97 3.70 2.95	T30-2-Pk. 100	Terminal	VII	1	7.40 6.66 6.22 4.96
T15.27-Pk. 1000	Eyelet	VII	4	3.33 3.00 2.80 2.23					1- 5- 10 25- 4 9 24 99
*T18.0-Pk. 100	Terminal	IX	12		T30-2-Pk. 1000	Terminal	VII	1	52.86 47.57 44.40 42.18
		IV	8	2.34 Any Quantity					1- 20- 100- 200- 19 99 199 999
		VII	6						.95 .86 .80 .64
*T18.0-Pk.1000	Terminal	IV	8	14.40 12.96 11.21 10.98	T30N-2-Pk. 10	Terminal	VII	1,	
		VII	6				IX	5	
*T18.1-Pk. 100	Terminal	VII	6	3.07 Any Quantity	T30N-2-Pk. 100	Terminal	VII	1,	6.95 6.25 5.85 4.65
							IX	5	
*T18.1-Pk. 1000	Terminal	VII	6	1- 5- 25- 50- 4 24 49 99 21.32 19.19 17.91 17.91	T30N-2-Pk.1000	Terminal	VII	1,	1- 5- 25- 50- 4 24 49 99 48.50 43.65 40.74 38.70
*T19.0-Pk. 100	Terminal	VII	6	2.11 Any Quantity	T31A-Pk. 10	Terminal	IX	5	1.35 Any Quantity
					T31A-Pk. 100	Terminal	IX	5	9.90 Any Quantity
*T19.0-Pk. 1000	Terminal	VII	6	1- 5- 25- 50- 4 24 49 99 14.48 13.03 12.16 12.16					1- 5- 25- 4 24 49
*T19.1-Pk. 100	Terminal	VII	6	2.85 Any Quantity	T31A-Pk. 1000	Terminal	IX	5	75.00 67.50 60.00
*T19.1-Pk. 1000	Terminal	VII	6	1- 5- 25- 50- 4 24 49 99 13.85 12.47 11.63 9.95	T32-Pk. 10	Terminal	VII	1	1.35 Any Quantity
*T27-Pk. 100	Terminal	VII	6	2.66 Any Quantity	T32-Pk. 100	Terminal	VII	1	9.90 Any Quantity
									1- 5- 25- 4 24 49
*T27-Pk. 1000	Terminal	VII	6	1-4 5-9 19.45 16.61	T32-Pk. 1000	Terminal	VII	1	75.00 67.50 60.00
					T32-1-Pk. 10	Terminal	VII	1	1.35 Any Quantity
T28-Pk. 100	Terminal	IV	8,	1- 20- 100- 200- 19 99 199 999 1.55 1.40 1.30 1.04	T32-1-Pk. 100	Terminal	VII	1	9.90 Any Quantity
		VII	3,						1- 5- 25- 4 24 49
		VII	6,		T32-1-Pk. 1000	Terminal	VII	1	75.00 67.50 60.00
		IX	12		T32A-Pk. 10	Terminal	VII	1,	1.35 Any Quantity
							IX	5	
T28-Pk. 1000	Terminal	IV	8,	1- 5- 25- 50- 4 24 49 99 11.00 9.90 9.24 7.37	T32A-Pk. 100	Terminal	VII	1,	9.90 Any Quantity
		VII	3,				IX	5	
		VII	6,						1- 5- 25- 4 24 49
		IX	12		T32A-Pk. 1000	Terminal	VII	1,	75.00 67.50 60.00
							IX	5	
T28-1-Pk. 100	Terminal	VII	3,	1- 20- 100- 200- 19 99 199 999 1.55 1.40 1.30 1.04	T32A-1-Pk. 10	Terminal	VII	1	1.35 Any Quantity
		VII	6		T32A-1-Pk. 100	Terminal	VII	1	9.90 Any Quantity
									1- 5- 25- 4 24 49
T28-1-Pk. 1000	Terminal	VII	3,	1- 5- 25- 4 24 49 11.00 9.90 9.24	T32A-1-Pk. 1000	Terminal	VII	1	75.00 67.50 60.00
		VII	6						1- 20- 100- 19 99 199
		IV	8		*T40-2-Pk. 100	Terminal	VII	6	4.00 3.60 3.36 2.68
T28-S-Pk. 100	Terminal	VII	3,	1- 20- 100- 200- 19 99 199 999 1.55 1.40 1.30 1.04					1-4 5-24 32.98 29.68
		VII	6		*T40-2-Pk. 1000	Terminal	VII	6	
		IV	8						1- 20- 100- 200- 19 99 199 999
T28-S-Pk. 1000	Terminal	VII	3	1- 5- 25- 4 24 49 11.00 9.90 9.24	*T40-3-Pk. 100	Terminal	VII	6	5.46 4.91 4.59 3.66
		VII	6						1-4 5-24 45.22 40.70
T28S-1-Pk. 100	Terminal	VII	6	1- 20- 100- 200- 19 99 199 999 1.55 1.40 1.30 1.04	*T40-3-Pk. 1000	Terminal	VII	6	.60 Any Quantity
		VII	3		†T55	Con.Strip	XIII	7	
T28S-1-Pk. 1000	Terminal	VII	3	1-4 5-24 25-49 11.00 9.90 9.24					

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Vector

CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory				CAT. NO.	DESCRIP.	SEC.	PAGE	PRICE PER UNIT PACK For larger qty. prices contact factory			
†T55G	Con.Strip	XIII	7	1.75 Any Quantity				*W4-1-Pk. 75	Washer	V	17	.35 Any Quantity			
†T56	Con.Strip	XIII	7	.60 Any Quantity				W4-2-Pk. 50	Washer	V	5	.90 Any Quantity			
†T56G	Con.Strip	XIII	7	1.75 Any Quantity				*W6-1-Pk. 26	Washer	V	17	.45 Any Quantity			
								*W6-2-Pk. 25	Washer			.30 Any Quantity			
				1-	50-	200-	500-					1-	50-	200-	500-
				49	199	499	999					49	199	499	999
T57-Pk. 10	Bus Strip	XIII	4,	1.21	1.09	.85	.81								
		IX	4&5												
T57-Pk. 100	Bus Strip	XIII	4,	11.00	9.90	7.70	7.37	X32AA18	Kit	IX	4	3.69	3.32	2.59	2.46
		IX	4&5					X32AA18-1	Frame	IX	4	1.21	1.09	.85	.81
T58-Pk. 10	Bus Strip	XIII	4,	.77	.69	.54	.52	X64AA18	Kit	IX	4	4.84	4.36	3.39	3.25
		IX	4&5												
T58-Pk. 100	Bus Strip	XIII	4,	6.60	5.94	4.62	4.42					1-	50-	200-	500-
		IX	4&5									49	199	499	999
T64-Pk. 50	Spring	VII	1,	.44 Any Quantity				X64AA18-1	Frame	IX	4	1.32	1.19	.92	.88
		IX	5					X64AA32	Kit	IX	4	6.05	5.45	4.24	4.06
				1-	20-	100-	200-	X64AA32-1	Frame	IX	4	1.38	1.24	.97	.92
				19	99	199	999	X85G24EP	Kit	IX	4	5.39	4.85	3.77	3.61
T79-S	Adapter	XI	2	1.65	1.49	1.39	1.11	X85G42EP	Kit	IX	4	6.82	6.14	4.77	4.57
T97-S	Adapter	XI	2	1.65	1.49	1.39	1.11								
T98L-S	Adapter	XI	2	2.09	1.88	1.76	1.40								
T102-Pkg. 100	Eyelet	VII	4	.75 Any Quantity											
		IVa	5												
				1-4	5-9	10 & over									
				4.00	3.75	2.80									
T102-Pkg. 1000	Eyelet	VII	4												
		IVa	5												
T103-Pkg. 100	Eyelet	VII	4	1.25 Any Quantity											
		IVa	5												
				1-4	5-9	10 & over									
				9.00	8.10	6.30									
T103-Pkg. 1000	Eyelet	VII	4												
		IVa	5												
				1-	50-	200-	500-								
				49	199	499	999								
T104-Pk. 10	Bus Strip	IX	4	1.21	1.09	.85	.81								
T104-Pk. 100	Bus Strip	IX	4	11.00	9.90	7.70	7.37								
				1-	20-	100-	200-								
				19	99	199	999								
T429	Adapter	XI	1	29.70	26.73	24.95	19.90								
T780-S	Adapter	XI	2	1.32	1.19	1.11	.88								
T789	Adapter	XI	1	5.90	5.31	4.96	3.95								
T789-C	Adapter	XI	3	9.74	8.75	8.17	6.52								
T789-S	Adapter	XI	2	19.47	17.52	16.36	13.05								
T807-S	Adapter	XI	2	1.52	1.36	1.28	1.01								
T809-S	Adapter	XI	2	1.52	1.36	1.28	1.01								
T980-S	Adapter	XI	2	1.32	1.19	1.11	.88								
				1-	5-	25-	50-								
				4	24	49	99								
TF2.23-Pk.1000	Eyelet	VII	4	4.43	3.99	3.72	3.16								
TF15.23-Pk.1000	Eyelet	VII	4	3.54	3.19	2.97	2.52								
TF15.24-Pk.1000	Eyelet	VII	4	5.25	4.95	4.25									
				1-	50-										
				49	199										
*TS-169	Strut	V	17	1.44	1.14										
*TS-169N	Strut	V	17	1.56	1.26										
*TS-240	Strut	V	17	1.50	1.20										
				1-	20-	100-	200-								
				19	99	199	999								
TX-7-M	Adapter	XI	2	.88	.79	.74	.59								
TX-8-0	Adapter	XI	2	1.43	1.29	1.20	.96								
TX-9-N	Adapter	XI	2	.94	.85	.78	.63								
TX-789	Adapter	XI	2	3.58	3.22	3.00	2.40								

TERMS AND CONDITIONS OF SALES

MINIMUM BILLING: \$10.00 Net exclusive of setup charges.
For industrial and O.E.M. prices in quantities greater than shown above, consult factory.

TERMS: Net 30 days; F.O.B. - Glendale, California

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